SEQUENCE LISTING

<110> Xu, Jiangchun Lodes, Michael J. Secrist, Heather Benson, Darin R. Meagher, Madeleine Joy King, Gordon E.

<120> COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE

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      <222> (1)...(604)
      <223> n = A, T, C \text{ or } G
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catgttttat gagccccaca atactgaagc teetttteca gggaettgge ataggcagte
aattocacat ttgggatagg tootototgg aagtgaatgt caggcagtga catccaagtt
                                                                        180
tctgcatgca gtgggttaac agccatgttt agggggaaca tgatttaaaa agtacatctc
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                                                                        300
teteceteet eeceaaatg cacaaggete acateteatt atggtgkegg eecatgteae
attaaagtgt gatacttkgg ttttgaaaac attcaaacag tctctgtgga aatctggaga
                                                                        360
                                                                        420
gaaattggcg gagagctgcc gtggtgcatt cctcctgtag tgcttcaagn taatgcttca
                                                                        480
teetttntta ataacttttg atagacaggg getagtegea cagacetetg ggaageeetg
                                                                        540
gaaaacgctg atgcttgttt gaagatctca agcgcagagt ctgcaagttc atcccctctt
tectgaggte tgttggetgg aggetgeaga acattggtga tgacatggae caegecattt
                                                                        600
                                                                        604
gtgg
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      <211> 473
      <212> DNA
      <213> Homo sapien
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                                                                         60
                                                                        120
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tgtctgtgga gaccctggag ggcacgacac tggaggtggg ctgcagcggg gacatgctca
                                                                        180
ctatcaacgg gaaggcgatc atctccaata aagacatcct agccaccaac ggggtgatcc
                                                                        240
                                                                        300
actacattga tgagctactc atcccagact cagccaagac actatttgaa ttggctgcag
agtotgatgt gtocacagoo attgacottt toagacaago oggootoggo aatoatotot
                                                                        360
                                                                        420
ctggaagtga gcggttgacc ctcctgggct cccctgaatt ctgtattcaa agatggaacc
                                                                        473
cctccaattg atgcccatac aaggaatttg cttcggaacc acataattaa aga
      <210> 11
      <211> 411
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(411)
      <223> n = A, T, C or G
      <400> 11
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cctgatgcag ccacagcagc ccgaagggtc tcaaaggtgt cctcgatctc aatgatctgc
                                                                       120
                                                                       180
tggatgttgt tggtgatggt ggagatgacc ttatcgatga ggtgcaccac cccgttggtt
                                                                       240
gcatggtggt cggctttyar carccgggca cagttcacag ttacaatccc attaggatag
tggtggatct nggatgttgg aattctggta catagnaggt gaggggtcat gcccgtgttt
                                                                       300
cageteatea gteaggaete geetgeeeae eatatggtaa gesgraggge atttgageag
                                                                       360
                                                                        411
ctcaatgttt gacattgctg gaccagggga gttccagcac ttctangang a
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<211> 560
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      <213> Homo sapien
      <400> 12
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                                                                       120
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gcatctggat tcctaatcct tttccgaaat ggcaggtgtg agtgcctgta taaaatattc
                                                                       180
                                                                       240
tatgtttacc ttcaacttct tgttctggct atgtggtatc ttgatcctag cattagcaat
                                                                       300
atgggtacga gtaagcaatg actctcaagc aatttttggt tctgaagatg taggctctag
                                                                       360
ctcctacgtt gctgtggaca tattgattgc tgtaggtgcc atcatcatga ttctgggctt
                                                                       420
cctgggatgc tgcggtgcta taaaagaaag tcgctgcatg cttctgttgt ttttcatagg
                                                                       480
cttgcttctg atcctgctcc tgcaggtggg cgacaggtat cctaggagct gttttcaaat
                                                                       540
ctaagtctga tcgcattgtg aatgaaactc tctatgaaaa cacaaagctt ttgagcgcca
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caggggaaag tgaaaaacaa
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      <211> 150
      <212> DNA
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                                                                       120
ttgaacacat ttaagatttg agggatataa gggaaaatga tatgaatgtg tatttttact
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      <211> 403
      <212> DNA
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                                                                       180
ttccctcacc ccaagcctca tgttcatacc agccagtggg ttcagcagaa cgcatgacac
cttatcacct ccctccttgg gtgagctctg aacaccagct ttggcccctc cacagtaagg
                                                                       240
                                                                       300
ctgctacatc aggggcaacc ctggctctat cattttcctt ttttgccaaa aggaccagta
                                                                       360
gcataggtga gccctgagca ctaaaaggag gggtccctga agctttccca ctatagtgtg
gagttctgtc cctgaggtgg gtacagcagc cttggttcct ctg
                                                                       403
      <210> 15
      <211> 688
      <212> DNA
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      <221> misc_feature
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      <223> n = A, T, C or G
      <400> 15
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tatagactag gacttgaaca tcaaaggaaa aatagacaaa gactagatga taaagtcatt
caaaagcaca gaagcacatc acatacacca gcaaggtttc caactactgc actgattaac
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tagatactct caatagcttt tcttacaagt tccaggctta aagttgcaca tatgctccaa tgccatcaga ttttccttat aaagaaaatt aattttcta agtaggcagt agaagggggt ttctgagctg cctttggaag tggacaatga gagaaaagaa tgccangtnc nanntaatnc	aacaaaggca ggtctttatt agtcttagag atcttagatc tggtggggg gaagttatga aaagcaggtg	aaaattacat agataacaat tcatgtaaat agttccatag tggaattggt ggtagaagat	gcaacaactg aaatgctagc aaaagttcca aaaactatta tagtaagtct tctactgact	atacactcat actttgtcac taatgaaatt attttttaa ggttctaatc tttagtaagg	240 300 360 420 480 540 600 660
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<210> 18 <211> 405 <212> DNA <213> Homo sapid	en				
<400> 18 tgaagagtca acttgggcct gtattaaagc agcggcagcc caagttgttt ggacagaaag ccacgctaac catgcctagg tgagagatca gtcggacacg ccgagatagg taacagatga gtgaagcttt gcagcagtac <210> 19 <211> 401	gctgcacgca gctacagagt aaggaaagga attggcaggg ggaagaaatt	gacatgaggg gtggtcctgg gttattgttt agagcacgtg tgggcttgat	ctaggttaaa ctcttgtgta tgtagaaagg tgttttatg tgaagtaatg	acagtaagat agaattacga tgctggggtt agaattatgc	60 120 180 240 300 360 405

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<212> DNA
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                                                                       120
gctgcttcaa gcgggattag gggcggcgtg ggagcctaga gtgggagaga ttaagctgaa
                                                                       180
gggaggtctt gtggtaaggg gtgatatcat ggggatgtta gaagaaacat ttgtcgtata
                                                                       240
gaatgattgg tgatggcctg gatacggttt tggatgattt gagaagctaa atggaagata
                                                                       300
                                                                       360
caaqqtccqa ataaaaqqaq qaqaaaaatq qqtattaaat qtctaaqaat tqqqaqqacc
taggacatct gattagagag tgcctaagga gattcagcat a
                                                                       401
     <210> 20
      <211> 331
      <212> DNA
      <213> Homo sapien
      <400> 20
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atctgcagaa cgatgcgggc attgtccaca gtatttgcga agatctgagc cctcaggtcc
                                                                       180
tcqatqatct tqaaqtaatq qctccaqtct ctqacctqqq qtcccttctt ctccaagtgc
                                                                       240
teceggattt tgetetecag ceteeggtte teggteteca ggeteeteae tetgtecagg
taagaggcca ggcggtcgtt caggctttgc atggtctcct tctcgttctg gatgcctccc
                                                                       300
                                                                       331
attcctgcca gaccccggc tatcccggtg g
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      <211> 346
      <212> DNA
      <213> Homo sapien
     <220>
      <221> misc feature
     <222> (1)...(346)
     <223> n = A, T, C or G
     <400> 21
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agateteace agteaegtgg teaattttaa geeaacetet tgtgteteee eteagtgaat
                                                                       120
                                                                       180
agettatgte cagacettet ggateettgg cagteacatt geceaettta gtgeetatag
ctacatecte aetgaettte gettggaata egtgttggga aaattgaggt getteattea
                                                                       240
catctgtcac aataagncgt gaacttggca aaagaacttg cattgtactt cacaccaaac
                                                                       300
actagaggct caggattttc tgctttgaac acaatgttgg aaacag
                                                                       346
     <210> 22
     <211> 360
     <212> DNA
     <213> Homo sapien
     <220>
     <221> misc feature
     <222> (1)...(360)
     <223> n = A, T, C or G
     <400> 22
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gaagactccc tctctcggaa gccggatccc gagccgggca ggatggatca ccaccagccg
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gggactgggc gctaccaggt gcttcttaat gaagaggata actcagaatc atcggctata
                                                                        120
gagcagccac ctacttcaaa cccagcaccc gcagattgtg caggctgcgt cttcagcacc
                                                                        180
agcacttgaa actgactctt cccctccacc atatagtagt attactggtg gaagtaccta
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                                                                        300
caacttcaga tacagaagtt tacggtgagt tttatcccgt gccacctccc tatagcgttg
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ctacctctct tcctacnwta cgatgaaagc tgagaaggct aaagctgctg caatggcatg
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      <211> 251
      <212> DNA
      <213> Homo sapien
      <400> 23
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agaaagtact ccaaccagag atgctgtggt cacgtatact gcagaaagta aaggagtcgt
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gaagtttggc tggatcaagg gtgtattagt acgttgtatg ttaaacattt ggggtgtgat
                                                                       180
gcttttcatt agattgtcat ggattgtggg tcaagctgga ataggtctat cagtccttgt
                                                                        240
aataatgatg g
                                                                       251
      <210> 24
      <211> 421
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(421)
      <223> n = A, T, C or G
      <400> 24
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cagetecage egeagettar geagegggag gttetgtgte eeagttgttt tecaatttea
                                                                       120
                                                                       180
ceggeteceg tggatgameg ygggacetgy caswgeteet gtktycetge yagsacacea
cnytttyccg tggacacrar kggaacckct tggaattcac agctyatgtt ctttctcara
                                                                       240
                                                                       300
agtttgagaa agaactttct aaagtgaggg aatatgtcca attaattagt gtgtatgaaa
agaaactgtt aaacctaact gtccgaattg acatcatgga raaaggatac catttcttac
                                                                       360
                                                                       420
actgaactgg acttcgagct gatcaaggta gaagtgaagg agatggaaaa actggtcata
                                                                       421
      <210> 25
      <211> 381
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(381)
      <223> n = A, T, C or G
      <400> 25
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gcaattacaa caatttagga nacaaaacaa tataaacaaa agaatgttaa atagttttt
                                                                       120
ttaaaaaata gcttgttgct tgcaanaaag tccatataat cttattcccc cccaaatata
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attttatact ttgcactaaa ccaaaatagc ttatggaaaa ttagtattaa atagctaaac
                                                                       240
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acagaaaacc tacagctata aataacataa aatacagttt aactttaatg ngatgcttaa
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acaaagcaaa ctatgatgca atatgaatca acttcattaa ttggacaagt ccagnggagg
                                                                        360
cacaaattag ataagcacta a
                                                                        381
      <210> 26
      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(401)
      <223> n = A, T, C or G
      <400> 26
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                                                                         60
gaaggagctg gagtttgaca cgaatatgga tgcagtacag atggtgatta cagaagccca
                                                                        120
gaaggttgat accagaagcc aagaacgctg gggttacaat ccaagacaca ctcaacacat
                                                                        180
                                                                        240
tagacgggct cctgcattct gatggaccaa ccttttcang tggtaagatt gaagangggg
                                                                        300
cctgggctta cctgggaagc aaaaactttt cccganccaa ggaacccagg attcaaccan
                                                                        360
gcnacttgcn ggccaaggaa ggcanaactn ggaanaaaag gccccttaag caaaagggnc
                                                                        401
accttcattt gctnggaaan cagcctttan ttggaatctt g
      <210> 27
      <211> 383
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(383)
      <223> n = A, T, C or G
      <400> 27
                                                                         60
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gaaaaaatat accacttcat agctaagtct tacagagaan aggatttgct aataaaactt
aagttttgaa aattaagatg cnggtanagc ttctgaacta atgcccacag ctccaaggaa
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nacatgtcct atttagttat tcaaatacca gttgagggca ttgtgattaa gcaaacaata
                                                                        240
tatttgttan aactttgntt ttaaattact gntncttgac attacttata aaggagnctc
                                                                        300
                                                                        360
taactttcga tttctaaaac tatgtaatac aaaagtatan ntttccccat tttgataaaa
                                                                        383
gggccnanga tactgantag gaa
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      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(401)
      <223> n = A, T, C or G
      <400> 28
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ggtcgcgttt cccctggctc acagtctgcc attatttgca tttttaaatg aagaaaagtt
```

```
taacgtggat ggatggacag tttacaatcc agtggaagaa tacaggaggc agggcttgcc
                                                                       120
caatcaccat tggagaataa cttttattaa taagtgctat gagctctgcg acacttaccc
                                                                       180
tgctcttttg gtggttccgt atcgtgcctc anatgatgac ctccggagag ttgcaacttt
                                                                       240
taggtcccga aatcgaattc cagtgctgtc atggattcat ccagaaaata agacggtcat
                                                                       300
tgtgcgttgc agtcagcctc ttgtcggtat gagtgggaaa cgaaataaag atgatgagaa
                                                                       360
                                                                       401
atatctcgat gttatcaggg agactaataa acaaatttct a
      <210> 29
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 29
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ccaaagactg cccacggggt catcactcct gtgacgaaat gagggctgga ttgaagatgt
                                                                       120
                                                                       180
tctgctgagc accccctgg tcatctttgg ggtctcagaa gagccataat catgaccatt
                                                                       240
ctcagcatct gaataatcag gttctctcca agtgcttggc aagttctgat tgtcctcagc
actgggatag tctggctccc caaaaaaggg tggagagtta ggttgaatgt cagcgcctgg
                                                                       300
ataatcaggc tttcccagag agtctgcgta tggattgatt ctaaaacttg tatgttccag
                                                                       360
                                                                       401
attctttctg gatcctggat ggttcaaatt ggctctgggt c
      <210> 30
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 30
                                                                        60
cctgaactat ttattaaaaa catgaccact cttggctatt gaagatgctg cctgtatttg
                                                                       120
agagactgcc atacataata tatgacttcc tagggatctg aaatccataa actaagagaa
actgtgtata gcttacctga acaggaatcc ttactgatat ttatagaaca gttgatttcc
                                                                       180
                                                                       240
cccatcccca gtttatggat atgctgcttt aaacttggaa gggggagaca ggaagtttta
attgttctga ctaaacttag gagttgagct aggagtgcgt tcatggtttc ttcactaaca
                                                                       300
                                                                       360
gaggaattat gctttgcact acgtccctcc aagtgaagac agactgtttt agacagactt
                                                                       401
tttaaaatgg tgccctacca ttgacacatg cagaaattgg t
      <210> 31
      <211> 297
      <212> DNA
      <213> Homo sapien
      <400> 31
                                                                        60
acctccatta atgccaggtg ttcctcctct gatgccagga atgccaccag ttatgccagg
catgccacct ggattgcatc atcagagaaa atacacccag tcattttgcg gtgaaaacat
                                                                       120
aatgatgcca atgggtggaa tgatgccacc tggaccagga ataccacctc tgatgcctgg
                                                                       180
                                                                       240
aatgccacca ggtatgcccc cacctgttcc acgtcctgga attcctccaa tgactcaagc
                                                                       297
acaggetgtt teagegeeag gtattettaa tagaceaect geaceaaeag eaactgt
      <210> 32
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 32
                                                                        60
caaacctgga gccaaaaagg acacaaagga ctctcgaccc aaactgcccc agaccctctc
```

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cagaggttgg ggtgaccaac tcatctggac tcagacatat gaagaagctc tatataaatc
                                                                       120
caagacaagc aacaaacct tgatgattat tcatcacttg ggtgagtgcc cacacagtca
                                                                       180
agctttaaag aaagtgtttg ctgaaaataa agaaatccag aaattggcag agcagtttgt
                                                                       240
cctcctcaat ctggtttatg aaacaactga caaacacctt tctcctgatg gccagtatgt
                                                                       300
ccccaggatt atgtttgttg acccatctct gacagttaga gcccgatatc actggaagat
                                                                       360
                                                                       401
attcaaaccg tctctatgct tacgaacctg cagatacagc t
      <210> 33
      <211> 401
      <212> DNA
      <213> Homo sapien
     <400> 33
agcagaggga caggaatcat tcggccactg ttcagacggg agccacaccc ttctccaatc
                                                                        60
caagcctggc cccagaagat cacaaagagc caaagaaact ggcaggtgtc cacgcgctcc
                                                                       120
aggccagtga gttggttgtc acttactttt tctgtgggga agaaattcca taccggagga
                                                                       180
tgctgaaggc tcagagcttg accctgggcc actttaaaga gcagctcagc aaaaagggaa
                                                                       240
attataggta ttacttcaaa aaagcaagcg atgagtttgc ctgtggagcg gtgtttgagg
                                                                       300
                                                                       360
agatctggga ggatgagacg gtgctcccga tgtatgaagg ccggattctg ggcaaagtgg
agcggatcga ttgagccctg gggtctggct ttggtgaact g
                                                                       401
      <210> 34
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 34
aacaatggct atgaaggcat tgtcgttgca atcgacccca atgtgccaga agatgaaaca
                                                                        60
ctcattcaac aaataaagga catggtgacc caggcatctc tgtatctgtt tgaagctaca
                                                                       120
ggaaagcgat tttatttcaa aaatgttgcc attttgattc ctgaaacatg gaagacaaag
                                                                       180
                                                                       240
gctgactatg tgagaccaaa acttgagacc tacaaaaatg ctgatgttct ggttgcttga
gtctactcct ccaggtaatg atgaacccta cactgagcag atggggcaac tgtggagaga
                                                                       300
aggggtgaaa ggatcccacc tcactcctga tttcattgca ggaaaaaagt tagcttgaat
                                                                       360
                                                                       401
atggaccaca aggtaagggc atttgtccat gaatggggct c
      <210> 35
      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
     <221> misc_feature
      <222> (1)...(401)
      <223> n = A, T, C or G
      <400> 35
                                                                        60
catttcttcc tactagactg cccccttgat ccactggcag aaatgatggc accaccttgt
                                                                       120
cttcaggtgg tgctccttca ttattccaag gatgcagcat ctctatggtg ccaggtatgg
gggtaaagcc tttggcgccc tttccgcaat ggcacatcag cagtaaaagt ggtaccaata
                                                                       180
gcangaacag aaagggcaaa atcatgancg caattgctgc gggtcccaag cccacatagg
                                                                       240
aatcatgetg ngetteeetg cancegetge catgeaagae aetnacaaae tgngantgta
                                                                       300
aggacctgct tttcaggaca actaaaaccc tgattgnctg aaatcaggaa ctgaatttca
                                                                       360
cttctcccaa gctttttctc actttggtgc aacancacac t
                                                                       401
```

```
<210> 36
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 36
cctgctagaa tcactgccgc tgtgctttcg tggaaatgac agttccttgt tttttttgtt
                                                                         60
totgtttttg ttttacatta gtcattggac cacagocatt caggaactac cocctgcccc
                                                                        120
                                                                        180
acaaagaaat gaacagttgt agggagaccc agcagcacct ttcctccaca caccttcatt
                                                                        240
ttgaagttcg ggtttttgtg ttaagttaat ctgtacattc tgtttgccat tgttacttgt
                                                                        300
actatacatc tgtatatagt gtacggcaaa agagtattaa tccactatct ctagtgcttg
actttaaatc agtacagtac ctgtacctgc acggtcaccc gctccgtgtg tcgccctata
                                                                        360
ttgagggctc aagctttccc ttgttttttg aaaggggttt a
                                                                        401
      <210> 37
      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(401)
      <223> n = A, T, C \text{ or } G
      <400> 37
cnnctntgna atggantnnt tgnctaaaan ganttgatga tgatgaanat ccctangang
                                                                         60
antaagcatg gancntgatc ntttnctnng cactccttta cgacacggaa acangnatca
                                                                        120
ncatgatggt accaganacc ttatcaccna cgcgcacnga nctgactnat tccaaagagt
                                                                        180
                                                                        240
tgnggttacg gncatccggt cattgctcgt gcccattgct gcagggctga tnctactggt
gcttattatg ntggccctga ggatgctcca caatgaatat aagcatgctg catgatcagc
                                                                        300
ggcaacanat gctctgccgt ttgcactaca tctttcacgg acacnatntc gaanacgggc
                                                                        360
                                                                        401
acnttgcana gttagacttg gaatgcatgg ngccggncan n
      <210> 38
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 38
                                                                         60
aattggctca ctctctcaag gcaagcactg tctcaaggca gtctcaaggc agagatgaca
cagcaaaaaa cagagggga gaaaaaagtc tattattggc ttgtgattta caaaagccaa
                                                                        120
                                                                        180
agtcctttag ataaaaggcc aggagtcgta ccaacataga taccaaatcc aggagaacac
                                                                        240
agaccagcga taagagggac gcttccccat gacccagacc agcctaaagc ccctgtgggg
                                                                        300
gcagccagtq qqqaqctqtc aqaccttqqa catqqtqqtc tttqaqaatq qgtctqccct
tctctccctg accagttggg atagacacct gactggaatc cttgacactg gcaggtgttt
                                                                        360
ctatgaacag agaggactgt gcctgtcttc ctgaatccca a
                                                                        401
      <210> 39
      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
```

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<222> (1)...(401)
      <223> n = A, T, C or G
      <400> 39
tctggtangg agcaattcta ttatttggca ttgcatggct gggttgaatt aaaacaggga
                                                                        60
                                                                       120
gtgagaacag gtgagtctag aagtccaact ctgaaaagga ccactgtaca tttgaacaca
                                                                       180
cggctgtgtt aaagatgctg ctaatgtcag tcactgggtg cactaaagga tctcttattt
                                                                       240
tatgtaaaac gttgggaatg acaagatana actgatactc tggtaagtta ccctctgaag
                                                                       300
ctacttcttg tgaaatacta atgacagcat catcctgcca agcgaaagag gcaggcataa
                                                                       360
gcaaggacaa attaaaaggg ggtaagagcc ttatcatgat gaggagtctt gttttgacat
                                                                       401
cttgggaaaa gctgtccata gtgtgaagtc gtcaatttct c
      <210> 40
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 40
tctggtcacc caactcttgt ggaagagggg aattgagatc gagtactgaa tatctggcag
                                                                        60
                                                                       120
agaggetgga atcettcage eccagagece agggaceaet ceagtagatg cagagagggg
                                                                       180
cctgcccagg ggtcagggca gtgggtatca ctggtgacat caagaatatc agggctgggg
                                                                       240
aggeatettt gttteetggt geeeteetea aagttgetga eactttgggg aegggaaggg
                                                                       300
gtagaagtag ggctgctcct tttggagctg gagggaatag acctggagac agagttgagg
                                                                       360
cagtcgggct gtccaggttc taagcatcac agcttctgca ctgggctctg aggagattct
                                                                       401
cagccagagg atcccagcct cctcctcct caaatgtcaa g
      <210> 41
      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(401)
      <223> n = A, T, C or G
      <400> 41
ctggactaaa aatgtccact atggggtgca ctctacagtt tttgaaatgc taggaggcag
                                                                        60
aaggggcaga gagtaaaaaa catgacctgg tagaaggaag agaggcaaag gaaactaggt
                                                                       120
                                                                       180
ggggaggatc aattagagag gaggcacctg ggatccacct tetteettan gteeceteet
                                                                       240
ccatcagcaa aggagcactt ctctaatcat gccctcccga agactggctg ggagaaggtt
                                                                       300
taaaaacaaa aaatccagga gtaagagcct taggtcagtt tgaaattgga gacaaactgt
ctggcaaagg gtgcganagg gagcttgtgc tcangagtcc agcccgtcca gcctcggggt
                                                                       360
gtangtttct gaagtgtgcc attggggcct caccttctct g
                                                                       401
      <210> 42
      <211> 310
      <212> DNA
      <213> Homo sapien
      <400> 42
                                                                        60
ggttcgacaa atccccaaaa atggcaaatt aagccctgtg acaaaataag ttattggatc
                                                                       120
atacagaaat agcccaaatc tggaaatttt gaattaaaat tgtaatcctg taaaacaagt
                                                                       180
tttggggtga atggatttct ttaataccaa taatattttt aattcccacc acagatggat
```

```
240
ttgctgaata tgctaatgct gtgaatgaga aaacaatttt ggggtaggta tacccacaag
taatctgatg acaaaataaa ccacagactg atgtcaaatg gacaaaaaac tgaaaatatg
                                                                       300
                                                                       310
ctgtgagaaa
      <210> 43
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 43
aggtcactta cacttgtgac cagtgtgggg cagagaccta ccagccgatc cagtctccca
                                                                        60
ctttcatgcc tctgatcatg tgcccaagcc aggagtgcca aaccaaccgc tcaggagggc
                                                                       120
ggctgtatct gcagacacgg ggctccagat tcatcaaatt ccaggagatg aagatgcaag
                                                                       180
aacatagtga tcaggtgcct gtgggaaata tccctcgtag tatcacggtg ctggtagaag
                                                                       240
gagagaacac aaggattgcc caqcctggag accacqtcag cqtcactggt attttcttgc
                                                                       300
caatcctgcg cactgggttc cgacaggtgg tacagggttt actctcagaa acctacctgg
                                                                       360
aagcccatcg gattgtgaag atgaacaaga gtgaggatga t
                                                                       401
      <210> 44
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 44
atcoctgtaa gtctattaaa tgtaaataat acatacttta caacttctct tagtcggccc
                                                                        60
ttggcagatt aaatctttgc aaaattccat atgtgctatt gaaaaatgaa ataaaacctc
                                                                       120
agatgtctga attcttattt caaatacagt tatataatta ttttaaatta caatatacaa
                                                                       180
tttctgttaa atacaactgt taagggattc tgagaacaat tataagatta taataatata
                                                                       240
tacaaactaa cttctgaaat gacatgggtt gtttccttcc caccctccta ccctctcaaa
                                                                       300
gagtttttgc atttgctgtt cctggttgca aaaggcaaaa gaaaatctaa aaatagtctg
                                                                       360
tgtgtgtcca cgacatgctc gctcctttga gaatctcaaa c
                                                                       401
      <210> 45
      <211> 401
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(401)
      <223> n = A, T, C or G
      <400> 45
gtgcctgctg cctgccaqcc tgqccctqcc qctqcctcag gaggcgggag gcatqagtqa
                                                                        60
gctacagtgg gaacaggctc aggactatct caagagattt tatctctatg actcagaaac
                                                                       120
aaaaaatgcc aacagtttag aagccaaact caaggagatg caaaaaattc tttggcctac
                                                                       180
                                                                       240
ctatactgga atggtaaact cccgcgtcat anaaataatg caanaagccc agatgtggag
tgccagatgt tgcagaatac tcactatttc caaatagccc aaaatggact tccaaagtgg
                                                                       300
tcacctacag gatcgtatca tatactcgag acttaccgca tattacagtg gatcgattag
                                                                       360
                                                                       401
tgtcaaaggc tttaaacatg tggggcaaag agatccccct g
      <210> 46
      <211> 401
      <212> DNA
```

```
<213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(401)
      <223> n = A, T, C or G
      <400> 46
gtcagaattg tctttctgaa aggaagcact cggaatcctt ccgaactttc caagtccatc
                                                                         60
catgattcan agatactgcc ttctctctct ctgggatttt atgtgtttct gatagtgaat
                                                                        120
tgttgatgta tttgctactt tgcttctttt ctctttcaag acttgatcat tttatatgct
                                                                        180
gnttggagaa aaaaagaact tttggtagca aggaggtttc aagaaatgat tttggatttt
                                                                        240
ctgctgcgga atttctcggc acctacctgt agtatggggc acttggtttg gttgcagagt
                                                                        300
aagaaggtgg aagaatgagc tgtacttggt taagcagttg aaaccttttt tgagcaggat
                                                                        360
ctgtaaaagc ataattgaat ttgtttcacc cccgtggatt c
                                                                        401
      <210> 47
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 47
ggtctgcagc aatgcacttc aaccatacat actgcttcca ctagctaata ccaaatgcag
                                                                         60
                                                                        120
gttctcagat ccagacaaat ggaggaaaag aacatttatg cttccgtttc agaaagccaa
gtcgtagttt tggcccttcc tttctctaaa gtttattccc aaaaacaggt agcattcctg
                                                                        180
attgggcaga gaagaggata ttttcagccc acatctgctg caggtatgtc attttctccc
                                                                        240
atcttcactg tgactagtaa agatctcacc acttctcttt ggaatttcca actttgcttg
                                                                        300
tgattgaatg tcacttcgtg aatttgtatt atgtcagatc acttggcatt gctcttccat
                                                                        360
atgcatcaag ttgccaggca ctaaacccaa tgttcatgaa c
                                                                        401
      <210> 48
      <211> 430
      <212> DNA
      <213> Homo sapien
      <400> 48
acataacttg taaacttttt ctgcttgggg gctgtaacag acagaagagt aaagactaca
                                                                         60
aggattttct gaagatgctt caatgaaaat catcatttcc tctttagtca tcccaagtct
                                                                        120
tggtttgaaa aacttgggca tggacttata cagaccttga accaccactg acttatcatt
                                                                        180
gggtggcaga ccttgaaacc aagctctctg tgttacttct gaaagtgcat caattctgat
                                                                        240
ttggctaaga acagaagaca aatactggga tcgtgattct gtgttatact ctagccacag
                                                                        300
catagcagct tctcgaacgg tttcttcctt ttctacattt aaattgtcac tactgagaat
                                                                        360
atctatcagt aggtcatgtg acagacctgc cccggggccg gcccgctcga tgcttgccga
                                                                        420
atatcatggt
                                                                        430
      <210> 49
      <211> 57
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(57)
      <223> n = A, T, C or G
```

```
<400> 49
                                                                         57
ggtattaaca atatcangca ctcattcttc ccctcttatg aaanggatna attttta
      <210> 50
      <211> 327
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(327)
      <223> n = A, T, C \text{ or } G
      <400> 50
gatggnggtn tccacaagan tnaangtncn tattaantan nncttgtaga nccacttnna
                                                                         60
                                                                        120
ttaattgnnn tatgnntgnc cttctggtgg ntgtngaagc ttcatatnnt nttttggacat
cattacacgt cttagctctt tnaagnacaa ctttaatgct atatgaattt tgccattttn
                                                                        180
gctaacactg gtatgctccn ngcatccacc atnccacntg gaattattta ttncnttcat
                                                                        240
                                                                        300
attaatnttt tgtttaccaa atctnacttg acccgaacga aactttctgn gtattttang
gccccnccat tcttactttt caagcct
                                                                        327
      <210> 51
      <211> 236
      <212> DNA
      <213> Homo sapien
      <400> 51
cgtctcgaag aagcgctgca ggccgatgat ggactgcacg tctgccttgt cctcagttaa
                                                                         60
                                                                        120
cttgttgaat tgcttgaaca tgcggcccac atcctgggca aactcctgtg gggagctgta
                                                                        180
gggaggtgac aactteteet ggaggeggge aeggateagg gteagateea gggtgeeace
gggctggtcc agggagaagg tggagtcgta gccagacctg cccgggcggc cgctcg
                                                                        236
      <210> 52
      <211> 291
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(291)
      <223> n = A, T, C or G
      <400> 52
ctcacatcct gggtccggct gtagagctgc accatggtgc tgagcgcccc ctccagctcc
                                                                         60
ttgtagatgt aaaggacggc gaaggagctg tagtctgtgt ccacgatgcg cacgtccagg
                                                                        120
                                                                        180
tagcccaagg ccgggactct gaagttgtcc ctcggagccc accttcangt actcgggcat
ccacctggtt acagcentte gneeteggna actecatntg gaetttacag geegeetee
                                                                        240
tctgtgggcc tgatggncct tgcaggacat nggaacacgg gagctcnctt t
                                                                        291
      <210> 53
      <211> 95
      <212> DNA
      <213> Homo sapien
```

```
<220>
      <221> misc_feature
      <222> (1)...(95)
      <223> n = A, T, C \text{ or } G
      <400> 53
gtctgtgcag tttctgacac ttgttgttga acatggntaa atacaatggg tatcgctgan
                                                                          60
cactaagttg tanaanttaa caaatgtgct gnttg
                                                                          95
      <210> 54
      <211> 66
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(66)
      <223> n = A, T, C \text{ or } G
      <400> 54
                                                                          60
cctnaatnat ntnaatggta tcaatnnccc tgaangangg gancggngga agccggnttt
                                                                          66
gtccgg
      <210> 55
      <211> 265
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(265)
      <223> n = A,T,C or G
      <400> 55
atctttcttc tcagtgcctt ggccntgttg agtctatctg gtaacactgg agctgactcc
                                                                          60
ctgggaagag aggccaaatg ttacaatgaa cttaatggat gcaccaagat atatgacct
                                                                         120
                                                                         180
gtctgtggga ctgatggaaa tacttatccc aatgaatgcc gtgttatgtt tttgaaaatc
ggaaacgcca gacttctatc ctcattcaaa aatctgggcc ttnctgaaaa ccagggtttt
                                                                         240
                                                                         265
naaaatccca ttcnggtcnc cggcg
      <210> 56
      <211> 420
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(420)
      <223> n = A, T, C or G
      <400> 56
gageggeege eegggeaggt eetegeggtg acetgatggg attteaaaac ettggttete
                                                                          60
agcaaggccc agatttttga atgangatag aagtctggcg tttccgattt tcaaaacata
                                                                         120
```

acacgcattc attgggataa gtatttccat cagtcccaca gacngggtca tatatcttgg gtgcatccat taagttcntt tgttaacatt tgggcctctc tttcccangg gaattcagct cccagttgtt taccaanatt naactccacc ggggccaaag gcncttgaaa aaaaaaanaa ttccttgttt accttccttg ggcttnaagt tctggcgtcc aaaagttcaa tttgaaaact gcaccgcact taccacgtct cttcnagaan cctggggaca cctcggccgc gaccacgcta <210> 57 <211> 170 <212> DNA <213> Here accion	180 240 300 360 420
<pre><213> Homo sapien <400> 57 gaagcggagt tgcagcgct ggtggccgcc gagcagcaga aggcgcagtt tactgcacag gtgcatcact tcatggagtt atgttgggat aaatgtgtgg agaagccagg gaatcgccta gactctcgca ctgaaaattg tctctccaga cctcggccgc gaccacgcta</pre>	60 120 170
<210> 58 <211> 193 <212> DNA <213> Homo sapien <400> 58	
attttcagtg cgagagtcta ggcgattccc tggcttctcc acacatttat cccaacataa ctccatgaag tgatgcacct gtgcagtaaa ctgcgccttc tgctgctcgg cggccaccag gcgctgcaac tccgcttcat cggcttcgcc cagctccgcc attgttcgcc acctgcccgg gcggccgctc gaa	60 120 180 193
<210> 59 <211> 229 <212> DNA <213> Homo sapien <400> 59	
cgcaactctc gagcatttat atacaatagc aaatcatcca gtgtgttgta cagtctataa tactccaaca gtctcccatc tgtattcaat ggcgccaccc aatacagtcc tttgtttgga tgctggggag agtaatccct accccaagca ccatatagat aagaaaaccc tctccagttg agctgaacca cagacggttt gctgatacct gcccgggcgg ccgctcgaa	60 120 180 229
<210> 60 <211> 340 <212> DNA <213> Homo sapien	
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<210> 61 <211> 179 <212> DNA	

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     <222> (1)...(179)
     <223> n = A, T, C or G
     <400> 61
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                                                                     60
gggacaaget ggeggnggee aageaetgtt gaaacnatag gggtetgggn gnaetegggt
                                                                    120
tnaagtggtt ggtccgantn ttnataacct tgtcngaacc nancatctcg gttgncang
                                                                    179
     <210> 62
     <211> 78
     <212> DNA
     <213> Homo sapien
     <220>
     <221> misc_feature
     <222> (1)...(78)
     <223> n = A, T, C or G
     <400> 62
agggcgttcg taacgggaat gccgaagcgt gggaaaaagg gagcggtggc nggaagacgg
                                                                     60
ggatgagctt angacaga
     <210> 63
     <211> 410
     <212> DNA
     <213> Homo sapien
     <220>
     <221> misc feature
     <222> (1)...(410)
     <223> n = A, T, C or G
     <400> 63
cccagttact tggggaggct gaggcaggga gaatcctttg aacccggngg gtgggaggtt
                                                                     60
gcagtgagcc cgagatagca ccattgcact tccancatgg ggtggacaga gtgagactct
                                                                    120
                                                                    180
240
tntcccattt caagtcctga aaatagagga tcagaaatgt tgaggaattc tttaggatag
                                                                    300
aaagggagat gggattttac ttatggggaa agaccgcaaa taaagactgn aacttaacca
cattccccaa gtgnaaggtg ttacccaaga agtaggaacc cttttggctn ttaccttacc
                                                                    360
ttccngaaaa aaacttattn cttaaaatgg aaacccttaa agcccgggca
                                                                    410
     <210> 64
     <211> 199
     <212> DNA
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     <221> misc_feature
     <222> (1)...(199)
     <223> n = A, T, C or G
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<211> 99

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<400> 64
cttgttctca aaaaggtcaa agggagcccg acgaggaata aatagcaatg ccctgaattc
                                                                         60
caactgacct tctacagaaa agtgcttgac tgccaagtgg tcttcccagt cattagtgag
                                                                        120
gctcttgtag aattctccat actcctcttg ggngangnca tnagggtttn nggcccaaat
                                                                        180
                                                                        199
aggntgggcc tngttaagt
      <210> 65
      <211> 125
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(125)
      <223> n = A, T, C \text{ or } G
      <400> 65
ageggtacag ttetgteetg geateateat teattgtagt atggteaata ggtgeeatga
                                                                         60
                                                                        120
aactcagtag cttgctaagg acatgaaacc gaagtttcct gcctttgctg gcctngtngn
                                                                        125
      <210> 66
      <211> 204
      <212> DNA
      <213> Homo sapien
      <400> 66
                                                                         60
attcagaatt ctggcatcgg tatttctata aagtccatca gttagagcag gagcaggccc
ggagggacgc cctgaagcag cgggcggaac agagcatctc tgaagagccc ggctgggagg
                                                                        120
                                                                        180
aggaggaaga ggagctcatg ggcatttcac ccatatctcc aaaagaggca aaggttcctg
                                                                        204
tggacctcgg ccgcgaccac gcta
      <210> 67
      <211> 383
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(383)
      <223> n = A, T, C or G
      <400> 67
teagggeete eaggeageea gttttgeagg anatteagea cetagngtet teetgeetna
                                                                         60
cgctcccaag aacctgctcc tgcaggggga acatcagaac tcgtccttga tgtcaaaatg
                                                                        120
gggctggtct tnaggcttga agtccaggtt agggctgcca tcctcattga gaattctccg
                                                                        180
ggcagtgtan ccgacgatgg ggtatttggc tttgtacact ttggtgaaaa cctnatccag
                                                                        240
                                                                        300
ggcctccagt tccttggccg tganacccgt antgtcatgg gtgaggtctg caggatccaa
                                                                        360
ggacatettg getacecete tagtggagte etteceegte aaggeattgt aaggggetee
                                                                        383
tcgtccataa aactcctttt cgg
      <210> 68
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<212> DNA
      <213> Homo sapien
      <400> 68
tcacatctcc ttttttttt aactttttca aatttttgtg ttaaatagaa ggctaaaggg
                                                                         60
                                                                         99
ttagatttaa gtttctgcta cattgaccct atttaccta
      <210> 69
      <211> 37
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(37)
      <223> n = A, T, C or G
      <400> 69
                                                                         37
gagaaggacn tacggncctg ntantanang aatctcc
      <210> 70
      <211> 222
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(222)
      <223> n = A, T, C or G
      <400> 70
                                                                         60
gtgggtcatt tttgctgtca ccagcaacgt tgccacgacg aacatccttg acagacacat
tettgacatt gaageecaca ttgteeceag gaagagette aeteaaaget teatggegea
                                                                        120
tttcgacaga ttttacttcc gttgtaacgt tgactggagc aaaggtgacc accataccgg
                                                                        180
                                                                        222
gtttgagaac acccantcac ctgccccggg cggccgctcg aa
      <210> 71
      <211> 428
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(428)
      <223> n = A, T, C or G
      <400> 71
                                                                         60
caggagtatt ttgtagaaaa gccagaagag cattagtaga tgtatggaaa tatacggtag
ggcacacgct gacagtactt ttcccaagcc acgccgtatt tcttcttaca gtggtactcg
                                                                        120
tcacqaqctt ctcqqtqqac aaqcaacatq qtgaaataaa ttatgtaqaa ataaqqcaqa
                                                                        180
atgtggttaa aaccacatgg gagggaccac gccaaggcca tgatgagatc acccaagtaa
                                                                        240
                                                                        300
ttggggtggc gaacaaagcc ccaccatcca gaaactagaa naatttttcc cgttgaaata
tgaatggntt ttaaatgtgc aagctttgga tcactgggaa ttttcccgaa tgcctttttc
                                                                        360
                                                                        420
tganaattgc accttnggaa gantccttac cccaagnttc agaccattat ttnaaaagcn
```

```
ttggaact
                                                                        428
      <210> 72
      <211> 264
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(264)
      <223> n = A, T, C or G
      <400> 72
gaataaagag cttactggaa tccagcaggg ttttctgccc aaggatttgc aagctgaagc
                                                                         60
tctctgcaaa cttgatagga gagtaaaaag ccacaataga gcagtttatg aagatcttgg
                                                                        120
                                                                        180
aggagattga cacacttgat cctgccagaa aatttcaaag acagtagatt gaaaaggaaa
ggetttggta aaaaaaggtt caggeattee tageegantg tgaeaeagtg gageanaaca
                                                                        240
tctgcangag actgancggc tgca
                                                                        264
      <210> 73
      <211> 442
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(442)
      <223> n = A, T, C or G
      <400> 73
                                                                         60
ggcgaatccg gcgggtatca gagccatcag aaccgccacc atgacggtgg gcaagagcag
caagatgctg cagcatattg attacaggat gaggtgcatc ctgcaggacg gccggatctt
                                                                        120
                                                                        180
cattggcacc ttcaaggctt ttgacaagca catgaatttg atcctctgtg actgtgatga
                                                                        240
gttcagaaag atcaagccaa agaacttcaa acaagcagaa agggaagaga agcgagtcct
                                                                        300
eggtetggng etgetgeeaa gggagaatet ggteteaatg aengtagaag gacettette
caaagatact ggnattgctc gagttccact tgctggaact tcccggggcc caaggatcgc
                                                                        360
                                                                        420
aaggettetg geaaaagaaa teeanaettn ggeegggaee aeetaaneea atteacaea
tggcggccgt actagtggat cc
                                                                        442
      <210> 74
      <211> 337
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(337)
      <223> n = A, T, C or G
      <400> 74
ggtagcagcg tctccagagc ctgatctggg gtcccagata cccaggcagc agcagccctg
                                                                         60
                                                                       120
gaggtaaagg gcaagctccc caatgtgagg ggagacccca ttcctggtca gccaggcttt
                                                                       180
cagaggagat agcaggtcga gggagccaac gaagaagaga ctgccancag gggaaggact
                                                                        240
gtcccgccaa ggacagaact gattcagggg ggtcaatgct cctctagaga agagccacac
```

```
agaactgggg ggtccaggaa ccatgaanct tggctgtggt ctaaggagcc aggaatctgg
                                                                        300
acagtgttct gggtcatacc aggattctgg aattgta
                                                                        337
      <210> 75
      <211> 588
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(588)
      <223> n = A, T, C or G
      <400> 75
                                                                         60
catgatgagt tctgagctac ggaggaaccc tcatttcctc aaaagtaatt tatttttaca
gcttctggtt tcacatgaaa ttgtttgcgc tactgagact gttactacaa actttttaag
                                                                        120
acatgaaaag gcgtaatgaa aaccatcccg tccccattcc tcctcctc tgagggactg
                                                                        180
gagggaagcc gtgcttctga ggaacaactc taattagtac acttgtgttt gtagatttac
                                                                        240
                                                                        300
actttgtatt atgtattaac atggcgtgtt tatttttgta tttttctctg gttgggagta
tgatatgaag gatcaagatc ctcaactcac acatgtagac aaacattagc tctttactct
                                                                        360
                                                                        420
ttctcaaccc cttttatgat tttaataatt ctcacttaac taattttgta agcctgagat
                                                                        480
caataagaaa tgttcaggag agangaaaga aaaaaaatat atgttcccca tttatattta
                                                                        540
gagagagacc cttantcttg cctgcaaaaa gtccaccttt catagtagta ngggccacat
attacattca gttgctatag gncagcactg aactgcatta cctgggca
                                                                        588
      <210> 76
      <211> 196
      <212> DNA
      <213> Homo sapien
      <400> 76
                                                                         60
geggtateae ageetggeee ceatgtaeta teggggggee caggetgeea tegtggteta
                                                                       120
tgacatcacc aacacagata catttgcacg ggccaagaac tgggtgaagg agctacagag
gcaggccagc cccaacatcg tcattgcact cgcgggtaac aaggcagacc tggacctgcc
                                                                       180
cgggcggccg ctcgaa
                                                                        196
      <210> 77
      <211> 458
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(458)
      <223> n = A, T, C or G
      <400> 77
                                                                        60
agtagagatg gggtttcact gtgttaacca ggatggtctt gatctcctgg cctcgtgatc
tgcccgcctc ggcctcccaa agtgttggga ttacaggcgt gaaccaccgc acccggccag
                                                                       120
aaatgttagt ttttccctat tctctctct ttttcctatt atatacttgg tcaaccagac
                                                                       180
agccatccta ccccanaatg gtaatgcctc ttcattcctc atatgaggga ataaaagaga
                                                                       240
                                                                       300
aaaaagcttt tggaaaacat ccacttatct aatcatccca aatatgtaat caaaagtata
caactcatgt gaagaataca ctggtaaaat gttantatag gccaaggtat cttgaattcc
                                                                       360
                                                                       420
tatatagaaa gctggtaaat gcccttttgg ctggaaccgc catcttccnn taattcnccc
```

```
aaaatgacca aacacaaagg gnaagangan aagccccc
                                                                        458
      <210> 78
      <211> 464
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(464)
      <223> n = A, T, C or G
      <400> 78
                                                                         60
teegcaaatt teetgeegge aaggteeeag catttgaggg tgatgatgga ttetgtgtgt
                                                                        120
ttgagagcaa cgccattgcc tactatgtga gcaatgagga gctgcgggga agtactccag
aggcagcagc ccaggtggtg cagtgggtga gctttgctga ttccgatata gtgcccccag
                                                                       180
ccagtacctg ggtgttcccc accttgggca tcatgcacca caacaaacag gccactgaga
                                                                       240
atgcaaagga ggaagtgagg cgaattctgg ggctgctgga tgcttacttg aagacgagga
                                                                        300
                                                                       360
cttttctggt gggcgaacga gtgacattgg ctgacatcac agttgtctgc accetgttgt
                                                                       420
ggctctataa gcaggntcta gaaccttctt ttcgcangac cttcggccgg accacgctta
                                                                        464
acccaaattc cacacattg cnggccgtac taanggaatc ccac
      <210> 79
      <211> 380
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(380)
      <223> n = A, T, C or G
      <400> 79
ctgtatgacc agtttttcca tctccttcac ttctaccttg atcagctcga agtccagttc
                                                                        60
                                                                       120
agtgtaagaa atggtatcct tctccatgat gtcaattcgg acagttaggt ttaacagttt
                                                                       180
cttttcatac acactaatta attggacata ttccctcact ttanaaagtt ctttctcaaa
cttctganaa aagaacatga actgtgaatt ccaagcgttc ccactctgtc cacgggaaaa
                                                                       240
                                                                       300
ggtggtgtct ggcagggaaa cagaacactg gcaggtccac ggtcatccac ggagccggtg
aaattgggaa aacaactggg acacagaacc tccgctgcct aagctgcggn tgggagcttg
                                                                       360
                                                                        380
gaacccgacc tggaactgga
      <210> 80
      <211> 360
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(360)
      <223> n = A,T,C or G
      <400> 80
                                                                        60
tegageggee geeegggeag gteeteagag agetgtttgt tnegettett caaaaaetee
                                                                       120
tattctccac ttctgctaaa ggactggatg acatcaattg tgatagcaat atttgtgggt
```

```
gttctgtcan ncancatcgc actcctgaac aaagtagatg ttggattgga tcagtctctt
                                                                       180
                                                                       240
tccacccaga tgactcctan atggtggatn atttcaaatc catcantcag tacctgcatg
cgnggtccgc ctgtgtnctt tgtcctgcag gangggcnct actacacttc ttccnagggg
                                                                       300
canaacatgg tgtgcngcgg ccatgggctg gcaacantga ttcnctgctg cacccanatn
                                                                       360
      <210> 81
      <211> 440
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(440)
      <223> n = A, T, C or G
      <400> 81
acgtggtccg gcgagtctga cctgcagata tgaactcctt gggaaaccta cattctgcct
                                                                        60
                                                                       120
cagacatact gggggcaaat ggctttaaaa gtctggctca gggagccaag attacagaaa
                                                                       180
nccgttgagt cnccatacat ggacactgac aaaggaactg aagatatcca aacaagccct
                                                                       240
cctggtcccg ngcctgcata aagatcggga ncggaacggt accngacgtc tgtggtcagg
                                                                       300
ggttgtggaa aattggaaaa aaccagtcct gcccacattg acagggaagc ctcaacggaa
                                                                       360
attgaacaga tngtcttatc accagtctcc cctcctggat cntgtctcgg ctcnggggan
                                                                       420
tcagtgatca gtcctttcag gtggaagaag caaagaagat caacaanaag cngatcctct
                                                                       440
cacctgntac cagcatatgg
     <210> 82
      <211> 264
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(264)
      <223> n = A, T, C or G
      <400> 82
agcgtggtcg cggccgangt cctgacattc ctgccttctt atattaatta tacnaataaa
                                                                        60
acaaaatagt gttgaagtgt tggagcggcg aaaatttttg gggggtggta tggacagaga
                                                                       120
atgggcgatn ttctcanggc tgcttcaagt gggattgggg cngcgtggga tcatncagtg
                                                                       180
                                                                       240
gganagattn cnctgaccgg antctnttgg tanggatnat cttgtgggga tgtgcaagag
                                                                       264
ncattcgtct cctgaatgan tggt
      <210> 83
      <211> 410
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(410)
      <223> n = A, T, C or G
      <400> 83
                                                                        60
ancettegtce ceeceangt ccacaettet eggagageca eccattete eggcaetce
```

```
acaggtaaga ctcgtgtcct gagcagcgca catcatccag gacaatgggt cctgagccct
                                                                       120
gaccaaaccg ggcatttcct ggggctgaca tggcccagcc acagcccant tgcctgcaga
                                                                       180
                                                                       240
cgaaattggc atcattggtg tcccagtant catcacaca ggtgccccag gaacctccgg
tatangaact ccacteggee tenanacetg tegeetecat teencageet cagggggeaa
                                                                       300
                                                                       360
actgggattc agatecttet gtgggtacag gtggtgatat cetgacagge caacttetg
                                                                       410
gcctgagtgt tgactgangc tgggcagacc tgcccgggcg gccgctcgaa
      <210> 84
      <211> 320
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(320)
      <223> n = A, T, C or G
      <400> 84
                                                                        60
tegaacggce geeegggcag gtetgeecca ggtgtateca tttgeegeeg atetetatea
                                                                       120
naaggagetg getaccetge nnegacgaan teetgaanat aateteacce neecagatet
                                                                       180
ctctgtcgca atggagatgt cgtcatcggt ggncctgatc acagggcatt ggactcagag
anangtnanc acagtgtnga agcgattgan nnagttcagt tgctggtctt acccgatntt
                                                                       240
ggaaggaagg aaaacgtgtt angacgtatc tcgatgnant tgaccaaanc tgaangctnc
                                                                       300
                                                                       320
agggggcatc gcaaaganan
      <210> 85
      <211> 218
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature.
      <222> (1)...(218)
      <223> n = A, T, C or G
      <400> 85
tegageggee geeegggeag gtetgetgee egtgetggtg ceattgeece atgtgaagte
                                                                        60
                                                                       120
actgtgccag cccagaacac tggtctcggg cccgagaaga ctcctttctc caggctntan
                                                                       180
gtatcaccac taaaatctcc aggggcacca tnganatcct gggtgtccgc aatgttgcca
atgtctgtcc gcnnattggc tacccaactg ttgcatca
                                                                       218
      <210> 86
      <211> 283
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(283)
      <223> n = A, T, C or G
      <400> 86
                                                                        60
tcgacttctt gtgaaggttt tgganaaata tgtatcagtt cgttttattt gggtattcaa
taatateett ggtgataatg etgaeteeat ggettetgae eecaaaaatt gaecetgetg
                                                                       120
```

```
ccactggttg tagccctgag attgattttt gtagccacga ttgtttcctc gtcctctgaa
                                                                        180
gtnetggttg tantteecte tgtngggeat teecetetgt tgtantteec tetgtttgan
                                                                        240
taactaccac ggccaggaaa aacaggggca cgaaggtatg gat
                                                                        283
      <210> 87
      <211> 179
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(179)
      <223> n = A, T, C or G
      <400> 87
agcgtggtcc cggccgatgt ctttctgtgt aagtgcataa cactccacat acttgacatc
                                                                         60
cttcangtca cgggccagct nttcagcant ctctggagtg ataggctact gtntgttctn
                                                                        120
ggcaagtgtc tcaanaatac aggggtcntc tctgagatga ntttcagtcc cgaaccctc
                                                                        179
      <210> 88
      <211> 512
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(512)
      <223> n = A, T, C or G
      <400> 88
tcgagcggcc gcccgggcag gtcctancan agaatcacca aatttatgga gagttaacag
                                                                         60
gggtttaaca ggaangaagt gcctttagta agttctcaag ccagangctg gaggcagcag
                                                                        120
ctaaatcaga ggacaggatc ctcagtgaaa gtgagccatt cggggtggca tgtcactcca
                                                                        180
                                                                        240
ggaataagca caacttanaa acaaatgatt tcgtangata gcacagtgac attggtgcac
ttgtgaacct gaggccactg tgtcaaactg tgcactggtt gtgaataggg aganccaaaa
                                                                        300
attatgtcct actgggtaat gagctttcaa tgggctcgat cctctcacnc tgaaagctct
                                                                        360
gtagagcagc tcagaaccac aaccactccc aacattgacc cttctggggg tactgtctgt
                                                                        420
ggcacccaca ggaaggagct ggagatcccc attaggactg tccacccaca cttgaagcca
                                                                        480
caaaactgca cctcggccgc gaccaccgct ta
                                                                        512
      <210> 89
      <211> 358
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(358)
      <223> n = A, T, C or G
      <400> 89
tcgagcgggc cgcccgggca ggtctgccag tccccatccc agacattctt tgcatctaag
                                                                         60
ctgangtctg aactgagtgg ggtgggctgg tgtttccatc ctcacaactc cagtgagccg
                                                                        120
ggtgtggccg tggcctgcgt ctctctggcg gttagtgatg ttggcatcat ccaccttttt
                                                                        180
```

<211> 480

```
240
caaaacaaaa gcactggact gaagaanaat cccnccctgt ntccacccag tccatggttt
                                                                         300
ttaataaaag ggttatnnaa gttgancaag ncatcaccac acacaancct aagaacnttt
                                                                         358
ttcatcnntc cccaaaacaa accencacce tgggaactce gggegegaac cacgeeta
      <210> 90
      <211> 250
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(250)
      <223> n = A, T, C \text{ or } G
      <400> 90
                                                                          60
cgagcggccg cccgggcagg tctggatggg gagacggact ggaactgcgg cttcccgtgg
                                                                         120
cctgcacgca caaggctccc cacggccgcc gaccttcttc agattcgatc gtatgtgtac
gcacnaagag ccaaatattg acattcacaa cttcgtggga atnttacccc anaagactgc
                                                                         180
                                                                         240
gaccccccga tcaggcgana gcctgagcat agaagaacac cgctgtgggc ttggcactgt
                                                                         250
gggncccatc
      <210> 91
      <211> 133
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(133)
      <223> n = A, T, C \text{ or } G
      <400> 91
                                                                          60
tcgagcggcc gnccgggcag gtcccgggtg gttgtttgcc gaaatgggca agttcntnaa
                                                                         120
ncctgggaag gtggtgcntg tnctggctgg acgctactcc ggacgcnaag ctgtcntcgt
                                                                         133
gangancatt gat
      <210> 92
      <211> 232
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(232)
      <223> n = A, T, C or G
      <400> 92
                                                                          60
agcgtggtcg cggccgangt ctgtcacttt gcgggggtag cggtcaattc cagccaccag
                                                                         120
agcatggctg taggggcgat ctgaggtgcc atcatcaatg ttcttcacga tgacaagctt
                                                                         180
tgcqtccgqa qtaqcqtcca qccaqqacaa gcaccacctt cccacqtntt cangaactng
cccatttcgg cataaccacc cgggacctgc ccgggcggnc gctcgaaaag cc
                                                                         232
      <210> 93
```

```
<212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(480)
      <223> n = A, T, C or G
      <400> 93
agcgtgggtc gcggccgang tctgtangct caccggccag agaagaccac tgtgagcatt
                                                                         60
                                                                        120
ttgccgtata tcctgccctg ccatttgttc actttttaaa ctaaaatagg aacatccgac
acacaccgtt tgcatcgtct tctcccttga tattttaagc attttcccat gtcgtgagtt
                                                                        180
                                                                        240
tctcagaaac atgtttttaa caattgtact atttagtcat ngtccattta ctataattta
tctgaccatt tccctactgt taaaatactt aagacggttt ctgatttttc cactatttaa
                                                                        300
ataatgctgt gatgaatatc tttaaaatct tctgatttct tacttttttc ccccttagat
                                                                        360
                                                                        420
gcctggaagt ggtattttga ggtgaaagag tttgttcatt ttgaanatat ttctgtctct
                                                                        480
ctctcgacct gatgtgtana cgctcacttc cagttagcag aaccacctta gtttgtgtct
      <210> 94
      <211> 472
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(472)
      <223> n = A, T, C or G
      <400> 94
tcgagcggnc gcccgggcag ggtctgatgt cantcacaac ttgaagggat gccaatgatg
                                                                         60
taccaatccn atgtgaaatc tctcctctta tctcctatgc tgganaaggg attacaaagt
                                                                        120
                                                                        180
tatgtggcng ataannaatt ccatgcacct ctantcatcg atgagaatgg agttcatgan
ctggtgaacn atggtatctg aacccgatac cangttttgt ttgccacgat angantagct
                                                                        240
                                                                        300
tttatttttg atagaccaac tgtgaaccta ccacacgtct tggacnactg anntctaact
                                                                       360
atconcaggg ttttattttg cttgttgaac tcttncagct nttgcaaact tcccaagatc
canatgactg antitcagat agcattitta tgattcccan ctcattgaag gtcttatnta
                                                                        420
                                                                        472
tntcnttttt tccaagccaa ggagaccatt ggacctcggc cgcgaccacc tn
      <210> 95
      <211> 309
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(309)
      <223> n = A, T, C or G
      <400> 95
                                                                         60
tegageggee geeegggeag agtgtegage eagegtegee gegatggtgt tgttggagag
cgagcagttc ctgacqgaac tgaccagact tttccanaag tgccggacgt cgggcancgt
                                                                        120
                                                                       180
ctatatcacc ttgaagaant atgacggtcg aaccaaaccc attccaaaga aangtactgt
                                                                       240
gganggettt ganeeegeag acaacnagtg tetgttaaga actacegatn ggaaanaana
                                                                       300
anatcagcac tgtgggtgag ctccnaggga agttaataan tttcggatgg gcttattcna
```

```
309
acctcctta
      <210> 96
      <211> 371
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(371)
      <223> n = A, T, C or G
      <400> 96
                                                                         60
tegageggee geeegggeag gteeaceact cacetactee cegtetetat agatttgeet
                                                                        120
gttctgggca gttctcagca atggaatcct actgtgtatc tttttgtgac tggttcttta
actcagcatc acattttcaa ggttcatcca tgctgcagcc tggctccgta ctggtgacag
                                                                        180
tacttcattt ctctctccct tttgttcaga ccaaggtctc cctctgtccc caaggctaaa
                                                                        240
                                                                        300
gtgcagttgg tgtgatcatg gctcactgca gcctcaaact cctggactca aacagtcctc
                                                                        360
ccatctcagc ctcccaaagt gctgatntta taagttgcaa gccctgcacc cagcctgtat
                                                                        371
ctccagtttg t
      <210> 97
      <211> 430
      <212> DNA
      <213> Homo sapien
     <220>
      <221> misc feature
      <222> (1)...(430)
      <223> n = A, T, C or G
      <400> 97
tcgancggcc gcccgggcag gtttnttttn tttntttttt nnnngntagt atttaaagan
                                                                         60
                                                                        120
atttattaaa tcatcttatc accaaaatgg aaacatnttc caactagaaa catgcnacca
tcatcttccc cagtccagtc ncaangtcca atattttnct tgcctctgca gataaaaagt
                                                                        180
                                                                        240
tennattttt atacceacte ttactecece ceaaaatttt aattengtee tneectaaaa
                                                                        300
ttncnccggg taacaantta ccaaaatggc naaccaatta ttttaaanaa aagttgcncn
                                                                        360
ttnaaaangg aaactttntg gcaanttanc ctcttttccc ttcccacccc ccantttaag
                                                                        420
gggaaaacaa tggcactttg ctcttgcttn aacccaaaat tgtcttccaa aaactattaa
                                                                        430
aaatgttnaa
      <210> 98
      <211> 307
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(307)
      <223> n = A, T, C or G
      <400> 98
tenaacggcc gecenggenn gtetngenge acetgtgeet cancegtega tacetggteg
                                                                         60
attgggacan ggaanacaat ntggttttca gggaggccac anatttggag aaacggatga
                                                                        120
```

```
attctccttt attccgaant cagctccttg gtctccgtag anggtgatct tgaaattctc
                                                                        180
ctgttttgaa aactttcttg aanaaacctt acctgctggt tgtatttggt ctcccactcg
                                                                        240
gacaagtact cgttatccnn ggtactctta atgtgcccac gtnaactccc cgggntggca
                                                                        300
actggaa
                                                                        307
      <210> 99
      <211> 207
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(207)
      <223> n = A, T, C or G
      <400> 99
gtccnggacc gatgttgcna aganntttct tggtccanta ggttcnaaaa aatgataanc
                                                                         60
naggtntanc acgtgaagat ntntatanag tcttantnaa aacncntaga tctgnatgac
                                                                        120
gataantcga anacnggggg aggggntgag gngaggtggn gtganggaag anntgttgat
                                                                        180
aaaagannna gntgataaga anngagc
                                                                        207
      <210> 100
      <211> 200
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(200)
      <223> n = A, T, C or G
      <400> 100
acntnnacta gaantaacag ncnttctang aacactacca tctgtnttca catgaaatgc
                                                                         60
cacacacata naaactccaa catcaatttc attgcacaga ctgactgtaa ttaattttgt
                                                                        120
cacaggaatc tatggactga atctaatgcn nccccaaatg ttgttngttt gcaatntcaa
                                                                        180
acatnnttat tccancagat
                                                                        200
      <210> 101
      <211> 51
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(51)
      <223> n = A, T, C or G
      <400> 101
tegageggee geeegggeag gtetgaceag tgganaaatg ceeagttatt g
                                                                         51
      <210> 102
      <211> 385
      <212> DNA
      <213> Homo sapien
```

```
<220>
       <221> misc_feature
       <222> (1)...(385)
       <223> n = A, T, C or G
       <400> 102
 aacgtggtcg cggccgaagt ccatggtgct gggattaatc cactgtgacn gtgactctga
                                                                          60
 gttgagttgt ttttcaatct tctccaagcc tgtggactca tcctccacat ccttgggtag
                                                                         120
taggatgaac atgctgaaga tgctnatttt gaaaaggaac tctatgaatc ttacaattga
                                                                         180
 atactgtcaa tgtttcccca tnacagaacg tggnccccca aggttccatc atctgcactg
                                                                         240
 ggtttgggtg ttctgtcttg gttgactctt gaaaagggac atttctttt gttttcttga
                                                                         300
 attcanggaa attttcttca tccactttgc ccacaaaagt taggcagcat ttaaccccca
                                                                         360
                                                                         385
 anggattttg ggtctgggtc cttcc
       <210> 103
       <211> 189
       <212> DNA
       <213> Homo sapien
      <220>
      <221> misc feature
       <222> (1)...(189)
      <223> n = A, T, C or G
       <400> 103
agcgtggtcg cggccgaagt ctgcagcctg ggactgaccg ggaagctctg attatttacc
                                                                          60
                                                                         120
caccacaggt angttgtgtt ctgaatctca agttcacagg ttaaggctac agcatcctca
tectecacgg ggttggantt gttgetggtg atgaanggtt tggggtgget etgeataact
                                                                         180
                                                                         189
gttgatctc
      <210> 104
      <211> 181
       <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(181)
      <223> n = A, T, C or G
       <400> 104
tegageggee geeegggeag gteeaggtet ceaceaange accaeegtgg gaagetggta
                                                                          60
attgatgccc accttgaagc cnntggggca ccatcencca actggatgct gcgcttggtt
                                                                         120
                                                                         180
ttgatggtgg caatggcaca ttgactcttt tgggaaccac ttcaccacgg tacaacaggc
                                                                         181
      <210> 105
      <211> 327
       <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
```

```
<222> (1)...(327)
      <223> n = A, T, C or G
      <400> 105
                                                                         60
tegageggee geeegggeag gtettetgtg gagtetgegt gggeategtg ggeagtgggg
                                                                        120
ctgccctggc cgatgctcan aaccccagcc tctttgtaaa gattctcatc gtgganatct
                                                                        180
ttggcagcgc cattggcctc tttggggtca tcgtcgcaat tcttcanacc tccanaatga
                                                                        240
anatgggtga ctanataata tgtgtgggtn gggccgtgcc tcacttttat ttattgctgg
                                                                        300
ttttcctqqq acaqaactcq qqcqcqaaca cqcttanccq aattccaaca cactgqcggg
                                                                        327
cgttactagt ggatccgagc tcggtac
     <210> 106
     <211> 268
      <212> DNA
      <213> Homo sapien
      <220>
     <221> misc feature
      <222> (1)...(268)
      <223> n = A, T, C or G
      <400> 106
                                                                         60
agcgtggtcg cggccgangt ctggcgtgtg ccacatcggt cccacctcgc tttacaaaac
                                                                        120
agtcctgaac ttnatctaat aaaattattg tacacnacat ttacattaga aaaaganagc
                                                                        180
tgggtgtang aaaccgggcc tggtgttccc tttaagcgaa ngtggctcca cagttggggc
                                                                        240
atcgtcgctt cctcnaagca aaaacgccaa tgaaccccna agggggaaaa aggaatgaag
                                                                        268
gaactgnccn gggangnccg ctccgaaa
      <210> 107
      <211> 353
      <212> DNA
      <213> Homo sapien
     <220>
      <221> misc feature
      <222> (1)...(353)
      <223> n = A, T, C or G
      <400> 107
                                                                         60
tegageggee geeegggeag gtggeeagge catgttatgg gateteaacg aaggeaaaca
                                                                        120
cctttacacn ctagatggtg gggacatcat caacgccctg tgcttcagcc ctaaccgcta
                                                                        180
ctggctgtgt gctgccgcag gccccagcat caagatctgg gatttanagg gaaagatcnt
tgtnnatgaa ctgaancnta aattatcagt tccannacca ngcaaaaacc accengtgca
                                                                        240
                                                                        300
ctccctggcc tggtctgctg atgggacctc gggcgcgaac acgctnancc caattccanc
                                                                        353
acactgggcg gncgttacta ntggatccga actcnggtac caancttggc gtt
      <210> 108
      <211> 360
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(360)
```

```
<223> n = A, T, C or G
      <400> 108
agcgtggtcg cggccgaagt cctggcctca catgaccctg ctccagcaac ttgaacagga
                                                                         60
naagcagcag ctacatcctt aaggtccgga aagttagatg aagatttgga tcctgcattg
                                                                        120
                                                                        180
nectgeetee cacetatete tecenaatta taaacageet eettgggaag cageagaatt
taaaaactct cccnctgccc tnttgaacta cacaccnacc gggaaaacct ttttcanaat
                                                                        240
ggcacaaaaa tncnagggaa tgcatttcca tgaangaana aactgggtta cccaaaatta
                                                                        300
                                                                        360
ttgggttggg gaaatccngg gggggttttn aaaaaagggc aanccnccaa anaaaaaaac
      <210> 109
      <211> 101
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(101)
      <223> n = A, T, C or G
      <400> 109
                                                                         60
atcgtggten cggccgaagt cctgtgtcct ggatgggccg tgtgcancga atccgttggc
                                                                        101
gactcctaac taccaanaaa angactctcg gaagaaattt c
      <210> 110
      <211> 300
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(300)
      <223> n = A, T, C or G
      <400> 110
                                                                         60
ccanggaaac ccagagtcac atgagatagg gtggctttcg ggacaggggg tcagangaat
                                                                        120
ggtacatgga tctcagcccc tgatggacac ggaacaggtg tggtcagaac tcccangatt
ctgcatccan gatccagtct ctatagaagt tatggatcat tccttcattt cattccccc
                                                                        180
                                                                        240
ttcatgaaaa aacttctgaa caagcctttt ttctcacttt ggggccctgt ttggcncaag
gtnttnantt ggggaaaaaa aaacaaatcc nttccnttan ccctccgtgg ggaatgacct
                                                                        300
      <210> 111
      <211> 366
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(366)
      <223> n = A, T, C or G
      <400> 111
                                                                         60
cgagcggccg cccgggcagg tccttgtgtt gccatctgtt ancattgatt tctggaatgg
                                                                        120
aacanctttc tcaaagtttg gtcttgctan tcatgaagtc atgtcagtgt cttaagtcac
```

```
tgctgctcac ttccttaccc agggaatata ctgcataagt ttctgaacac ctgttttcan
                                                                     180
tattcactgt tcctctcctg cccaaaattg gaagggacct catttaaaaa tcaaatttga
                                                                     240
atcctgaaan aaaaacngga aatntttctc ttggaatttg gaatagaatt attcanttga
                                                                     300
ataacatgtt ttttcccctt gccttgctct tcncaanaac atctggacct cggccgcgac
                                                                     360
acctta
                                                                     366
      <210> 112
      <211> 405
     <212> DNA
      <213> Homo sapien
     <220>
     <221> misc_feature
     <222> (1)...(405)
     <223> n = A, T, C or G
     <400> 112
ctgactncta aacttctaat tcnatcaana taactactct ccttccgtct tncagagtgt
                                                                      60
tcacaataaa tctgtgaatc tggcatacac agttgctgga aaattgttct tcctccacna
                                                                     120
                                                                     180
aaaggtcaat tgttcnccnc atgaaanaag ataaattgtt catccatcac tnctgaacca
                                                                     240
tccaaaacgc cggcggaatt attnccccgt tattatgggg aacggaattt tnaataaatt
tgggaangaa tggggctttt attgttttgt tttccccctt tcttggcatt gattgggccg
                                                                     300
                                                                     360
caatgggccc cctcgctcan aanntgcccc ggggccggcc gctccaaaac cgaaattccc
anccacactt ggcgggccgt tactanttgg atccgaactc ggtta
                                                                     405
     <210> 113
     <211> 401
     <212> DNA
     <213> Homo sapien
     <400> 113
ggatagaaga gtatatgggt ttggcaccac ggggtggata ggcaaaacat ttggttgata
                                                                      60
aggcgcagat tctgaactaa cttgtaaggc ttgtctggtt ttaggacagg taaaatgggg
                                                                     120
                                                                     180
gaatggtaag gagagtttat aggttttagg agcccatgct gtagcaggca agtgataaca
                                                                     240
ggctttaatc ctttcaaagc atgctgtggg atgagatatt ggcatttgag cggggtaagg
300
tagaggtatc ttatacttgt ggggttaagg tgggggggat ataagaggga ggacgccaaa
                                                                     360
ggaggctttg gattaggaat aaggggcggc aatgagatgc a
                                                                     401
     <210> 114
     <211> 401
     <212> DNA
     <213> Homo sapien
     <220>
     <221> misc feature
     <222> (1)...(401)
     <223> n = A, T, C or G
     <400> 114
                                                                      60
angtccacag gangcangag gccaggctcc gtcccancca gtccatgatg ttgaagagga
                                                                     120
ggaagcagca catggggttg aagaactgac tecaetteec aggactggtg gagetggtea
                                                                     180
ccatggctgt ggtggcgggg aagacggaca gggtgacttc tggaagacag tgaagactga
                                                                     240
aggttttcct ggcttctggg gctcatctgg ctctgattcc ggctccttct ccaggtcaag
```

```
300
atccagggtt cagagctact ttcttggggg actactnggg aatcccgttc tcatctgggg
gtngaggggg gacggggnaa gggncatgct tgtgacccag gtttcccacc tcggcccgcg
                                                                        360
                                                                        401
accacgctaa ggcccgaatt ncagcacact tggcggcccg t
      <210> 115
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 115
atccctgtaa gtctattaaa tgtaaataat acatacttta caacttctct tagtcggccc
                                                                         60
ttqqcaqatt aaatctttqc aaaattccat atqtqctatt qaaaaatqaa ataaaacctc
                                                                        120
agatgtctga attcttattt caaatacagt tatataatta ttttaaatta caatatacaa
                                                                        180
                                                                        240
tttctqttaa atacaactqt taaqqqattc tqaqaacaat tataaqatta taataatata
tacaaactaa cttctqaaat qacatqqqtt qtttccttcc caccctccta ccctctcaaa
                                                                        300
gagtttttgc atttgctgtt cctggttgca aaaggcaaaa gaaaatctaa aaatagtctg
                                                                        360
                                                                        401
tgtgtgtcca cgacatgctc gctcctttga gaatctcaaa c
      <210> 116
      <211> 301
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(301)
      <223> n = A, T, C or G
      <400> 116
                                                                         60
ngatttaatt gnnagcttct ttttaatgga atnnttggct aaaatgaatt gatgattatg
aatatcccta ggaggagtta gcatggannn tgatcatttt cttngnactc ctttangaca
                                                                        120
                                                                        180
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gttctgctga gcaccccct ggtcatcttt ggggtctcag aagagccata atcatgacca
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ttctcagcat ctgaataatc aggttctctc caagtgcttg gcaagttctg attgtcctca
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gcactgggat agtctggctc cccaaaaaag ggtggagagt taggttgaat gtcagcgcct
                                                                       300
ggataatcag gctttcccag agagtctgcg tatggattga ttctaaaact tgtatgttcc
                                                                       360
                                                                       420
agattettte tggateetgg atggtteaaa ttggetetgg gteeaggatg ateagagttg
ctctgagctc cagggtagtc cggttctaag gagccaaaat gatctggatg tgttctggag
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cctgcatagt ttccactgct gctggagcct gcaaaatcag gatttcgttg agatccaggg
                                                                       540
                                                                       600
tagtctggtt gtctggatga tgctcggtgg tagggatgac tctgaaattc actataatct
ggctctggta gagaggtagg atggtctggg cttgttctag aggctgcaga gtatgcattg
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cttctggtgc cagaatagtc tggattactc agagatctag gataatttgg ttctgccaga
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gacccaggat agtctggacg tgttctggag gctacagagt atggattgct cctggtgccg
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ttattcctgt agtaggcaga catgttggta tggactcttc accctggagt ggtaaactgt
                                                                       960
cccagcattt gcaattactc agggatcttt tttttttcac ttttttgccc ttattgttct
                                                                      1020
                                                                      1080
tgctttgtcc caagtagatg caaatgttgt gcaaaccaac ttgatcttaa gatgttgtta
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                                                                      1140
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gcagatgatt tacggagggt tataatctgt gatgctggtc tgaagtctga atattccaag
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ttccctcccc actattctta ttctcaaccc ccagaggaac caaggctgct gtacccacct
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cagggacaga actccacact atagtgggaa agcttcaggg acccctcctt ttagtgctca
                                                                       240
gggctcacct atgctactgg tccttttggc aaaaaaggaa aatgatagag ccagggttgc
                                                                       300
ccctgatgta gcagccttac tgtggagggg ccaaagctgg tgttcagagc tcacccaagg
                                                                       360
agggaggtga taaggtgtca tgcgttctgc tgaacccact ggntggtatg aacatgaggc
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ttggggtgag ggaaaccaag taggggttgg agaaggagca gcacctttgt macacctggc

480

	E 4.0
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gaggetggaa teetteagee eeagageeea gggaeeacte cagtagatge agagagggge etgeeeaggg gteagggeag tgggtateae tggtgaeate aagaatatea gggetgggga	180
ggcatctttg tttcctggtg ccctcctcaa agttgctgac actttgggga cgggaagggg	240
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agtcgggctg tccaggttct aagcatcaca gcttctgcac tgggctctga ggagattctc	360 420
agccagagga tcccagcctc ctcctccctc aaatgtcagt ccaagcaaat accaaagcaa cgcatcgatt ttgtggaagt caattagaga tgtggggagc tatcggagac aagcactatt	480
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cctccag	787
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<pre><221> misc_feature</pre>	120 180
<pre><221> misc_feature</pre>	120 180
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<pre><221> misc_feature</pre>	120 180 219 60 120
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<213> Homo sapien

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                                                                        60
                                                                       120
gctcaccggg aggctgtgga gcactttctg gaggccctga acatgcagag gaaaagccgg
                                                                       180
ggcccccggg gtgaaggagg tgccatgtcg gagaacatct ggagcaccct gcgtttggca
                                                                       240
ttgtctatgt taggccagag cgatgcctat ggggcagccg acgcgcggga tctgtccacc
ctcctaacta tgtttggcct gccccagtga cagtgggacg ggctgccctg tgagtgtcca
                                                                       300
                                                                       360
cctggggatt aaatatgtct tcaacaaggg aggcctggct tctacaatgg tttaggtaaa
                                                                       414
ggggcctttg aagtagttct ggccaggctt gcaatacaca caacacaaga gcca
      <210> 136
      <211> 461
      <212> DNA
      <213> Homo sapien
      <400> 136
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                                                                        60
                                                                       120
agaggcaggc tgtgaggagg taaggcttca gcagaggaag gcaccttgac agacaacacg
                                                                       180
agactcctat taaatcagca cagttgcaaa cttcacctgc ctcaagccaa cagctcattg
                                                                       240
aactcatatg tcgattgaga atcatttaca aaaccaggag agaaacaatg ggaagagcaa
cggtctctca tccctggacc tgacactcaa aacattatgt acaggatgca ggaacaaaat
                                                                       300
ctgtctgatc agtgccctct cctgctggga aaaacaccca tcacggaaga atttggggat
                                                                       360
                                                                       420
taaatatgtc ttcaacaagg gaggcctggc ttctacaatg gtttaggtaa aggggccttt
                                                                       461
gaagtagttc tggccaggct tgcaatacac acaacacaag a
      <210> 137
      <211> 269
      <212> DNA
      <213> Homo sapien
      <400> 137
atagcaaatg gacacaaatt acaaatgtgt gtgcgtggga cgaagacatc tttgaaggtc
                                                                        60
                                                                       120
atgagtttgt tagtttaaca tcatatattt gtaatagtga aacctgtact caaaatataa
gcagcttgaa actggcttta ccaatcttga aatttgacca caagtgtctt atatatgcag
                                                                       180
                                                                       240
atctaatgta aaatccaqaa cttgqactcc atcgttaaaa ttatttatgt gtaacattca
                                                                       269
aatgtgtgca ttaaatatgc ttccacagt
      <210> 138
      <211> 452
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(452)
      <223> n = A, T, C or G
      <400> 138
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                                                                       120
taatcttccc tggtaactat gcaacatttg gacagaaagg cacacaaaaa agtttaaata
                                                                       180
tttcatgtgc caatctggaa aaaaataatt taaatcaaca gaacagacag tacatctaca
caaatgagga aagcagaaaa gatacctcac attcatttat ctcaggtttc aaagtggctt
                                                                       240
                                                                       300
caatgctaaa gtaaatgtat taacatttgg aaaatacaag acaatttttt tgtttgtttt
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<211> 173

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360
aaaacaaaac aaaaaaggag ttcaggactt gttatcagtg tccaagtggc taanaactgg
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ttcccataac aagcattgaa agttaaggcc cc
                                                                     452
      <210> 139
      <211> 474
      <212> DNA
      <213> Homo sapien
      <400> 139
                                                                      60
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atattectee acaaaccact gtaccatatt acettatttt atettettga aattettatt
                                                                     120
                                                                     180
cattggcttg tttgttgtct ctttgcatta gatatatgta agctccttgg cataaatttg
acattggtag gggactgaca ttctaacctg gcccaggccc taggagagag ataactccac
                                                                     240
                                                                     300
aaagcagcac atactatctt aggttagcag ggagctaact caccatgtag cagatgaaaa
                                                                     360
aaaccaaacc cagcactgtg cataaatacc acttgccaag aagtcaggtc ctcggcaacc
                                                                     420
gagaatcaac ctcagcacaa acgcaggtgg ctgggctctg ttccccctta gccaccacct
cagectetee ecteecetge eccaagtgee caagagettg getetetgtg ettt
                                                                     474
      <210> 140
      <211> 487
      <212> DNA
      <213> Homo sapien
      <400> 140
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cttccctgcc tcgtgttcct gagaaacgga ttaatagccc tttatccccc tgcaccctcc
                                                                     120
tgcaggggat ggcactttga gccctctgga gccctcccct tgctgagcct tactctcttc
                                                                     180
agactttctg aatgtacagt gccgttggtt gggatttggg gactggaagg gaccaaggac
actgacccca agetgteetg ectagegtee agegtettet aggagggtgg ggtetgeetg
                                                                     240
                                                                     300
tectggtgtg gttggtttgg ecetgtttge tgtgactace eceeecete ecegaacega
                                                                     360
gggacggctg cctttgtctc tgcctcagat gccacctgcc ccgcccatgc tccccatcag
                                                                     420
cagcatccag actttcagga agggcagggc cagccagtcc agaaccqcat ccctcagcag
ggactgataa gccatctctc ggagggcccc ctaataccca agtggagtct ggttcacacc
                                                                     480
                                                                     487
ctggggg
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      <211> 248
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
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      <223> n = A, T, C or G
      <400> 141
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tcaggtcagg tagagtcaaa atcaggcacc ccgactcaca gactgcttca cattgccatc
                                                                     120
                                                                     180
agagattgtc ctgcaacaat attatgttta gttctactgc agaatgataa ctggatctta
                                                                     240
ccccctttgc ctgatctggc cacaaacttg tttttcaggt ctttccatta ggctctcttc
                                                                     248
agctaatt
      <210> 142
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<212> DNA
      <213> Homo sapien
      <400> 142
tactaagatt gtccaagcct ccctcttaaa actttcttc cctttagagg aatcattact
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togtattaaa agtttctact toottgtaga atatotacat coaatgggco atggcacaaa
                                                                       120
atttaagtct agaaagaatc ttaaaggctc atcttatagt aaccagaggc agg
                                                                       173
      <210> 143
      <211> 511
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(511)
      <223> n = A,T,C or G
      <400> 143
cctcgtcaga ggggtggttc ctggtnacct gtactccacg gacctcggtg aagcaaaagc
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ttcagggcag agggaatgag gcaacccagt ggcagccccg ctgggccccg tggctcctgc
                                                                       120
                                                                       180
tetectattg gacgtagagg caggggagag acttetetat acaaatatte teateacaga
agggatgate cttgctgctc tgccgtaggg tttttgatgc tgagctatgc tgcacatgac
                                                                       240
gttaacctaa agaacttgga ctgagctttt aaaaaaggac agcaaacaat tttataatcc
                                                                       300
ttaaagtgta atagacggtt acactagtgc agggtattgg ggaggctctt tgggtgtgga
                                                                       360
ggctgtcact tgtatttatt gtgactctaa atctttgata gtaaaacaaa tgtaaaaaga
                                                                       420
                                                                       480
aatgtttgcc accagatggg aatagaagtt ccaataagca ggctggaatg ggtggctata
cgttgtatca cgaggaagtt ttagactctg a
                                                                       511
      <210> 144
      <211> 190
      <212> DNA
      <213> Homo sapien
      <400> 144
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agacttccgc tacacttttc acaaaattat ctccaggtat cttctctgcc aagcagatgt
                                                                       120
caagagtggg aatggtcagg ctggggtaca gcctgctctc ggtgtgggcc tatgatctag
                                                                       180
gctctcgcct
                                                                       190
      <210> 145
      <211> 169
      <212> DNA
      <213> Homo sapien
      <400> 145
gatgtggtta tctcctcaga tggccagttt gccctctcag gctcctggga tggaaccctg
                                                                        60
cgcctctggg atctcacaac gggcaccacc acgaggcgat ttgtgggcca taccaaggat
                                                                       120
gtgctgagtg tggccttctc ctctgacaac cggcagattg tctctggat
                                                                       169
      <210> 146
      <211> 511
      <212> DNA
      <213> Homo sapien
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<400> 146
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cagggaagat gactagattt cctaacatcc atgagtgaaa tttatagaag tatactctct
                                                                       120
gacttgatat aaaggaagat tttaaaaaaac atgactgttc aggagtgttc aagtagggtc
                                                                       180
agatgaccag tgattgggaa tacttcgtaa gcaggagcaa gtaagatctg agccactgtt
                                                                       240
ctatcggtag ggtgtctgtg gtattccttg gtcaaagaag tactctaagc aacttcagtc
                                                                       300
tcacgaatta ctatcaccct cgtgggcata catgatggtt accctaaaga ggaagtttca
                                                                       360
qaaqqcaqta atattqqatc ctqqaataqt caqacaqqaq ccttcatqca qatacccttt
                                                                       420
tcagttctcc atacacccat tcacaagtgg tcacaaaaac acccagtacc tttacttggc
                                                                       480
tttacccact taacaatatg ctcaatatga g
                                                                       511
      <210> 147
      <211> 421
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
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      <223> n = A, T, C or G
      <400> 147
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ggccagttag caacacaggg agaatctgcc tgaactgacc aaaggtgtcc atacttcatg
                                                                       120
tcagtgagaa tttcacctcc atcatgttct aaagagccaa caacagattc tagggcactg
                                                                       180
caaaatgctt cagcaattaa ttgaagttct qtttgaqtac attcatcatc tttgaqaatg
                                                                       240
ctttctgggt cgttgtgagt cttgtgtctg atatatgcag ccaaatgagt ttcagtacag
                                                                       300
ccacctccca acaaagccca tggttccttg agtgttaact gcaggacatg cagtgccgtc
                                                                       360
                                                                       420
tgacacgtga gcttcagctc atcccangca gtgtcatttc tgttgcagag aagccaagct
                                                                       421
g
      <210> 148
      <211> 237
      <212> DNA
      <213> Homo sapien
      <400> 148
acacaccact gttggccttc catctgggtt aagtcaactg tgagtagaaa ccgaagataa
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cagttttgta ttcataatgg ccttttcata ctccaagtac ttttgagcac agagcctctt
                                                                       120
gettetgace tggcacttgg aacacagata tatatatett ttgttetgte cetgggaaac
                                                                       180
tgatatttgt gtaagacaac caccagatat tttctctaat aaaatcttct aaaatta
                                                                       237
      <210> 149
      <211> 168
      <212> DNA
      <213> Homo sapien
      <400> 149
agagaaagtt aaagtgcaat aatgtttgaa gacaataagt ggtggtgtat cttgtttcta
                                                                        60
ataagataaa cttttttgtc tttgctttat cttattaggg agttgtatgt cagtgtataa
                                                                       120
aacatactgt gtggtataac aggcttaata aattctttaa aaggagag
                                                                       168
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<210> 150

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<211> 68
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(68)
      <223> n = A, T, C or G
      <400> 150
ggtggggttt ggcagagatg antttaagtg ctgtggccag aagcgggggg ggggtttggt
                                                                        60
ggaaattt
                                                                        68
      <210> 151
      <211> 421
      <212> DNA
      <213> Homo sapien
      <400> 151
aggtgacacg tattcgggat gaaagtataa tagtcattcc ttcaaccctt gcatttatgg
                                                                        60
                                                                       120
actctggaaa tcgaagatcc acagtgagta aagatgttcg tccaaagaca aaaaatagaa
acageteaac aaagegagag acaaaaaaac aaaatggeac tgtggetetg cetttgaagt
                                                                       180
                                                                       240
ctgggctcca gcagagggct gatcttccca caggagacga gacggcctat gacactctcc
                                                                       300
agaactgttg tcagtgccga attttacttc ccttgcccat tctaaatgag caccaggaga
                                                                       360
agtgccagag gttagctcac caaaagaaac tccagtgggg ctggtgagat ggctcagcgg
                                                                       420
gtaagagcac ccgactgctc ttccgaaggt ccggagttca aatcccagca accacatggt
                                                                       421
      <210> 152
      <211> 507
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(507)
      <223> n = A, T, C or G
      <400> 152
gaattcggca cnagctcgtg ccgccagggt nggtccnttt tttgctccgc ctcgccanga
                                                                        60
cttcctacag ctatcgccag tcgtcggcca cgtcntcctt cngaggcctg ggcggcgct
                                                                       120
ccgtgcgttn tgggccgggg gtcgcctttc nctcncccag cattcacggg ggctccggcg
                                                                       180
geogeggegt atcogtgtcc tecgeoeget ntgtgteete gteeteeten ggggeetaeg
                                                                       240
gctngctgct acngcggctt cctgaccgct tccnacgggc tgctggcngg caacgagaag
                                                                       300
ctaaccatgc agaacctnaa cnaccgcctg gcctcctacc tgnacaaggt gcgcnccctg
                                                                       360
taggeggeea aeggenaget agaggtgaag atcenetaet gggtaceaga ageaggggee
                                                                       420
tgggccctgc ccgactacag ccactnctnc acnaccatgc agtacctgcn ggganaagat
                                                                       480
tntngggngc caccatngag aactgca
                                                                       507
      <210> 153
      <211> 513
      <212> DNA
      <213> Homo sapien
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<400> 153
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tattgtgaaa aagcccatgg tgctgggaca tgaagcttcg ggaacagtcg aaaaagtggg
                                                                       180
atcatcggta aagcacctaa aaccaggtga tcgtgttgcc atcgagcctg gtgctccccg
                                                                       240
agaaaatgat gaattetgea agatgggeeg atacaatetg teacetteea tettettetg
                                                                       300
tgccgcgccc cccgatgacg ggaacctctg ccggttctat aagcacaatg cagccttttg
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ttacaagett cetgacaatg teacetttga ggaaggegee etgategage eactttetgt
ggggatccat gcctgcagga gaggcggagt taccctggga cacaaggtcc ttgtgtgtgg
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agctgggcca atcgggatgg tcactttgct cgtggccaaa gcaatgggag cagctcaagt
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                                                                       513
agtggtgact gatctgtctg ctacccgatt gtc
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      <211> 507
      <212> DNA
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      <220>
      <221> misc feature
      <222> (1)...(507)
      <223> n = A, T, C or G
      <400> 154
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tgctgtctct gctgctgctt ctgggtcctg ctgtccccca ggagaaccaa gatggtcgtt
                                                                       180
actetetgae etatatetae actgggetgt ceaageatgt tgaagaegte eeegegttte
                                                                       240
aggcccttgg ctcactcaat gacctccagt tctttagata caacagtaaa gacaggaagt
                                                                       300
ctcagcccat gggactctgg agacaggtgg aaggaatgga ggattggaag caggacagcc
                                                                       360
aacttcagaa ggccagggag gacatcttta tggagaccct gaaagacatc gtggagtatt
                                                                       420
acaacgacag taacgggtct cacgtattgc agggaaggtt tggttgtgag atcgagaata
                                                                       480
acagaagcag cggagcattc tggaaatatt actatgatgg aaaggactac attgaattca
                                                                       507
acaaagaaat cccagcctgg gtcccct
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      <211> 507
      <212> DNA
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      <220>
      <221> misc_feature
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      <223> n = A, T, C or G
      <400> 155
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gcagcagtgt gctgagcagg cacaggagca tgaggtggag accagggccc tgcaggacag
                                                                       180
ctggctgcag gcccaggcag tgctcaagga acgggaccag gagctggaag ctctgcgggc
                                                                       240
agaaagtcag tcctcccggc atcaggagga ggctgcccgg gcccgggctg aggctctgca
                                                                       300
ggaggccctt ggcaaggctc atgctgccct gcaggggaaa gagcagcatc tcctcgagca
                                                                       360
ggcagaattg agccgcagtc tggaggccag cactgcaacc ctgcaagcct ccctggatgc
                                                                       420
ctgccaggca cacagtcggc agctggagga ggctctgagg atacaagaag gtgagatcca
                                                                       480
ggaccaggat ctccgatacc aggaggatgt gcagcagctg cagcaggcac ttgcccagag
                                                                       507
ggatgaagag ctgagacatc agcagga
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<211> 509
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(509)
      <223> n = A, T, C or G
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aggcaagtgg agaatcagct ccaagtgcaa ttaaagcagc ttcagcaaag gagagaagag
                                                                       120
                                                                       180
gaaatgaaga atcaccagga gatattaaag gctattcagg atgtgacaat aaagcgggaa
                                                                       240
gaaacaaaga agaagataga gaaagagaag aaggagtttt tgcagaagga gcaggatctg
aaagctgaaa ttgagaagct ttgtgagaag ggcagaagag aggtgtggga aatggaactg
                                                                       300
                                                                       360
gatagactca agaatcagga tggcgaaata aataggaaca ttatggaaga gactgaacgg
                                                                       420
gcctggaagg cagagatctt atcactagag agccggaaag agttactggt actgaaacta
gaagaagcag aaaaagaggc agaattgcac cttacttacc tcaagtcaac tcccccaaca
                                                                       480
                                                                       509
ctggagacag ttcgttccaa acaggagtg
      <210> 157
      <211> 507
      <212> DNA
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      <400> 157
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caaaaccggc cttgtggaat ttgcaagaaa cctgaccgct cttggtttga atctggtcgc
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                                                                       240
ttccggaggg actgcaaaag ctctcaggga tgctggtctg gcagtcagag atgtctctga
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gttgacggga tttcctgaaa tgttgggggg acgtgtgaaa actttgcatc ctgcagtcca
                                                                       360
tgctggaatc ctagctcgta atattccaga agataatgct gacatggcca gacttgattt
                                                                       420
caatcttata agagttgttg cctgcaatct ctatcccttt gtaaagacag tggcttctcc
                                                                       480
aggtgtaagt gttgaggagg ctgtggagca aattgacatt ggtggagtaa ccttactgag
                                                                       507
agctgcagcc aaaaaccacg ctcgagt
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      <221> misc_feature
      <222> (1)...(507)
      <223> n = A,T,C or G
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tacaaaaccc acattgatgt cattcattat cggaaaacgg atgcaaaacg tctgcatggc
                                                                       180
cttgatgaag aagcagaaca gaaacttttt tcagagaaac gtgtggaatt gcttaaggaa
                                                                       240
ctttccagga aaccagacat ttatgagagg cttgcttcag ccttggctcc aagcatttat
                                                                       300.
gaacatgaag atataaagaa gggaattttg cttcagctct ttggcgggac aaggaaggat
                                                                       360
tttagtcaca ctggaagggg caaatttcgg gctgagatca acatcttgct gtgtggcgac
                                                                       420
cctggtacca gcaagtccca gctgctgcag tacgtgtaca acctcgtccc caggggccag
```

```
tacacginitg ggaagggete cagigeannit ggeetnactg entacgiaat gaaagaceet
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gagacaaggn anctggnnct gnnacag
                                                                       507
      <210> 159
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      <221> misc_feature
      <222> (1)...(508)
      <223> n = A, T, C or G
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gcagatgagg tagctgaagg taaattaaat gatcattttc ctctcgtggt atggcagact
                                                                       120
ggatcaggaa ctcagacaaa tatgaatgta aatgaagtca ttagcaatag agcaattgaa
                                                                       180
atgttaggag gtgaacttgg cagcaagata cctgtgcatc ccaacgatca tgttaataaa
                                                                       240
                                                                       300
agccagaget caaatgatae tttteecaca geaatgeaca ttgetgetge aatagaagtt
                                                                       360
catgaagtac tgttaccagg actacagaag ttacatgatg ctcttgatgc aaaatccaaa
                                                                       420
gagtttgcac agatcatcaa gattggacgt actcatactc aggatgctgt tccacttact
cttgggcagg aatttagtgg ttatgttcaa caagtaaaat atgcaatgac aagaataaaa
                                                                       480
                                                                       508
gctgccatgc caagaatcta tgagctcg
      <210> 160
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      <221> misc feature
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atacaagagt ttgagaaggt tatgacagac cacagagttt ctttggagga attaaaaaag
                                                                       120
                                                                       180
gaaaaccaac aaataattaa tcaaatacaa gaatctcatg ctgaaattat ccaggaaaaa
                                                                       240
gaaaaacagt tacaggaatt aaaactcaag gtttctgatt tgtcagacac gagatgcaag
ttagaggttg aacttgcgtt gaaggaagca gaaactgatg aaataaaaat tttgctggaa
                                                                       300
                                                                       360
gaaagcagaa cccagcagaa ggagaccttg aaatctcttc ttgaacaaga gacagaaaat
ttgagaacag aaattagtaa actcaaccaa aagattcagg ataataatga aaattatcag
                                                                       420
                                                                       480
gtgggcttag cagagctaag aactttaatg acaattgaaa aagatcagtg tatttccgag
                                                                       508
ttaattagta gacatgaaga agaatcta
      <210> 161
      <211> 507
      <212> DNA
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                                                                       120
cagtagcete ggcccaagag gcctgcttte cactegctag ccccgccggg ggtccgtgte
                                                                       180
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ctgtctcggt ggccggaccc gggcccgagc ccgagcagta gccggcgcca tgtcggtggt
                                                                       240
gggcatagac ctgggcttcc agagctgcta cgtcgctgtg gcccgcgccg gcggcatcga
                                                                       300
gactateget aatgagtata gegacegetg caegeegget tgeatttett ttggteetaa
                                                                       360
gaatcgttca attggagcag cagctaaaag ccaggtaatt tctaatgcaa agaacacagt
                                                                       420
ccaaggattt aaaagattcc atggccgagc attctctgat ccatttgtgg aggcagaaaa
                                                                       480
atctaacctt gcatatgata ttgtgca
                                                                       507
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      <211> 507
      <212> DNA
      <213> Homo sapien
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      <221> misc_feature
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      <223> n = A, T, C or G
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                                                                       120
getetaegge teaceeaatg etetggtget aetgattget caagagaagg aaagaaacat
                                                                       180
atttgaccag cgtgccatag agaatgagct actggccagg aacatccatg tgatccgacg
                                                                       240
aacatttgaa gatatctctg aaaaggggtc tctggaccaa gaccgaaggc tgtttgtgga
                                                                       300
tggccaggaa attgctgtgg tttacttccg ggatggctac atgcctcgtc agtacagtct
                                                                       360
acagaattgg gaagcacgtc tactgctgga gaggtcacat gctgccaagt gcccagacat
                                                                       420
tgccacccag ctggctggga ctaagaaggt gcagcaggag ctaagcaggc cgggcatgct
                                                                       480
ggagatgttg ctccctggcc agcctga
                                                                       507
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tegteacttg acaatgeaga tettegtgaa gaetetgaet ggtaagaeea teaceetega
                                                                       120
ggttgagccc agtgacacca tcgagaatgt caaggcaaag atccaagata aggaaggcat
                                                                       180
ccctcctgac cagcagaggc tgatctttgc tggaaaacag ctggaagatg ggcgcaccct
                                                                       240
gtctgactac aacatccaga aagagtccac cctgcacctg gtgctccgtc tcagaggtgg
                                                                       300
gatgcaaatc ttcgtgaaga cactcactgg caagaccatc accettgagg tggagcccag
                                                                       360
tgacaccatc gagaacgtca aagcaaagat ccaggacaag gaaggcattc ctcctgacca
                                                                       420
gcagaggttg atctttgccg gaaagcagct ggaagatggg
                                                                       460
      <210> 164
      <211> 462
      <212> DNA
      <213> Homo sapien
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tccttttggt tccaagtcca atatggcaac tctaaaggat cagctgattt ataatcttct
                                                                       180
aaaggaagaa cagacccccc agaataagat tacagttgtt ggggttggtg ctgttggcat
                                                                       240
ggcctgtgcc atcagtatct taatgaagga cttggcagat gaacttgctc ttgttgatgt
                                                                       300
catcgaagac aaattgaagg gagagatgat ggatctccaa catggcagcc ttttccttag
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```
aacaccaaag attgtctctg gcaaagacta taatgtaact gcaaactcca agctggtcat
                                                                       360
tatcacggct ggggcacgtc agcaagaggg agaaagccgt cttaatttgg tccagcgtaa
                                                                       420
cgtgaacatc tttaaattca tcattcctaa tgttgtaaaa ta
                                                                       462
      <210> 165
      <211> 462
      <212> DNA
      <213> Homo sapien
      <400> 165
                                                                        60
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aagtootgoa ogggaaccag ogcaagogoo gcaagttoot ggagaoggtg gagttgoaga
                                                                       120
                                                                       180
tcagcttgaa gaactatgat ccccagaagg acaagcgctt ctcgggcacc gtcaggctta
                                                                       240
agtocactoc cogocotaag ttototgtgt gtgtootggg ggaccagcag cactgtgacg
                                                                       300
aggctaaggc cgtggatatc ccccacatgg acatcgaggc gctgaaaaaa ctcaacaaga
                                                                       360
ataaaaaact ggtcaagaag ctggccaaga agtatgatgc gtttttggcc tcagagtctc
                                                                       420
tgatcaagca gattccacga atcctcggcc caggtttaaa taaggcagga aagttccctt
ccctgctcac acacaacgaa aacatggtgg ccaaagtgga tg
                                                                       462
      <210> 166
      <211> 459
      <212> DNA
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     <220>
      <221> misc_feature
      <222> (1)...(459)
     <223> n = A, T, C or G
      <400> 166
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ggcacgagag ggacctgtnt gaatggntcc actagggttn anntgnctct tacttttaac
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cantnaaatn gacctgcccg tgaanangcg ggcntgacac annaanacga gaagacccta
                                                                       180
tggagcttta atttattaat gcanacagna cctaacaaac ccacangtcc taaactacca
agcctgcatt aaaaatttcg gntggggcna cctcnnagca naacccaacc tccgagcaac
                                                                       240
                                                                       300
tcatgctaag acttcaccag tcaaagctga actactatac tcaattgatc caataacttg
                                                                       360
accaacagan caagntacce tagggataac ancacaatee tattetagae eeettatnac
                                                                       420
caatangntt tacacctcna tngnggaacc aggacatccg atggggcagn cgttattaaa
                                                                       459
gttngttgnt aacnataaag tctacgtgat ctgagttag
      <210> 167
      <211> 464
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(464)
      <223> n = A, T, C or G
      <400> 167
                                                                        60
gaattgggac caacganaan entgeggnte ttnttttgen tecanngece agetnattge
                                                                       120
tcagacacac atggggaagg tnaaggtcgg gagtcaacng atttggtngt attgnagcgt
                                                                       180
ttggtcacca gngctgcttt taactctggn aaagtggata ttgttgtcat naatgacccc
                                                                       240
tncattgacc tnaactacat ggtttacatg ttccaatatg attccaccca tggcaaattc
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catngcaccg tnaaggctga gaacgggaag cttgtnatca atggaaatcc catcaccatc
                                                                        300
tttcangaac ganatcentn caaaaatcaa anttgggggc gatgcttggc cncttgaagt
                                                                        360
accepticaan gggaannnce ccactitgge centrittine aaneecacee caattiggen
                                                                        420
aaaaaaaag gggnntttgg ggggggcct tttanntttt tttt
                                                                        464
      <210> 168
      <211> 462
      <212> DNA
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      <220>
      <221> misc_feature
      <222> (1)...(462)
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      <400> 168
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gaagacccgg tgccggaagc cgnnggcngc nacatgcagn aactgaacca gctgggcgcg
                                                                        120
cancagttct cagacctgac agaggtgctt ttacacttcc taactgatcc anantangtg
                                                                       180
gaaatattnt tngttnatnt catntgaatn atccancncc aatcatanca nntttnattn
                                                                       240
                                                                        300
cctcataanc nttgagaana gcnnccttnt gnttncanan ggtgctntga anangagtct
                                                                        360
cacangcaan caggtccaag cggatttnnt aactntgggt cttantgang agaaagncac
ttacttttct gaaanengga agcagaatgc tcccaccctt gctcgatggg ccatacgtca
                                                                        420
agactctgat gattaaccag ctttanatat ggacnggaaa tt
                                                                        462
      <210> 169
      <211> 460
      <212> DNA
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      <220>
      <221> misc_feature
      <222> (1)...(460)
      <223> n = A, T, C or G
      <400> 169
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                                                                       120
aagntettnt neneaaagga ggacagagea nacageagag accatggant etneetegge
ccctccccac agatggtgca tcccctggca naggctcctg ctcacagcct cacttctaac
                                                                       180
cttctggaac ccgccacca ctgccaagct cactattgaa tccacgccgt tcaatgnntc
                                                                       240
ntaggggaag gaggngcttt ctactnttnc acaatctgan ccccttcttn tttggttact
                                                                       300
ancatggctc tncatgtnaa aatactggna tggntaacct gtcaaattta taggnantnt
                                                                       360
                                                                        420
gctaattggg aaactnccnn tngtctaccc caggggnccc agattcctnn gttcncataa
                                                                        460
cnattaattt aacccctaat gncaanccct tngttaaaga
      <210> 170
      <211> 508
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(508)
      <223> n = A, T, C or G
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<400> 170
ggcacgaggg ggatttttag gtggtcnggt gtggtatcag gaataatgtg ggaggccaga
                                                                         60
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                                                                       120
aatgagccgg ggagcagaaa gtatatgcgt caggtatgag gaagaaaata gattttggaa
                                                                       180
                                                                       240
gttatgagaa atgtagagag tgagttgagc atagtttgtg attttgaggg cctctaacag
tattaaagca gcggcagcgg ctgcacacag acatgatggc taggctaaaa caggaaggtc
                                                                       300
aagttgtttg gacagaaagg ctacagggtg cagtcctggc tcttgtgtaa gaattctgac
                                                                       360
                                                                       420
cacactaacc atgcctagga aggaaaggag ttgttctttt gtaagggatt gaggtttggg
agattaatcg gacacgatca gcagggagag cacctgtgtt tttatgagaa ttatgctgag
                                                                        480
                                                                       508
ataggtaaca gatgaggatg aaatttgg
      <210> 171
      <211> 507
      <212> DNA
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      <220>
      <221> misc_feature
      <222> (1)...(507)
      <223> n = A, T, C \text{ or } G
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                                                                        60
                                                                       120
ccagcccacc tacaacccga cgctgcctta ctaccagccc atcccgggcg ggctcaacgt
                                                                       180
gggaatgtct gtttacatcc aaggagtggc cagcgagcac atgaagcggt tcttcgtgaa
ctttgtggtt gggcaggatc cgggctcaga cgtcgccttc cacttcaatc cgcggtttga
                                                                       240
cggctgggac aaggtggtct tcaacacgtt gcagggcggg aagtggggca gcgaggagag
                                                                       300
gaagaggagc atgcccttca aaaagggtgc cgcctttgag ctggtcttca tagtcctggc
                                                                       360
                                                                       420
tgagcactac aaggtggtgg taaatggaaa tcccttctat gagtacgggc accggcttcc
cctacagatg gtcacccacc tgcaagtgga tggggatctg caacttcaat caatcaactt
                                                                       480
categgagge cageceetce ggeecea
                                                                       507
      <210> 172
      <211> 409
      <212> DNA
      <213> Homo sapien
      <400> 172
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                                                                        60
                                                                       120
cgatgactct gtgggagtgg aagtgtccag cgacagcttc tgggaggttg ggaactacaa
                                                                       180
acggactgtg aagcggattg acgatggcca ccgcctgtgt ggtgacctca tgaactgtct
gcatgagcgg gcacgcatcg agaaggcgta tgcacagcag ctcactgagt gggcccgacg
                                                                       240
ctggaggcag ctggtagaga agggaccaca gtatgggacc gtggagaagg cctggatagc
                                                                       300
                                                                       360
tgtcatgtct gaagcagaga gggtgagtga actgcacctg gaagtgaagg catcactgat
gaatgaagac tttgagaaga tcaagaactg gcagaaggaa gcctttcac
                                                                       409
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      <211> 409
      <212> DNA
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                                                                        60
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gtcagctcgc catgactgtg acctgctgcg ggaacagtat gaagaggagc aggaagccaa
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ggctgagctg cagagggcca tgtccaaggc caacagcgag gtagcccagt ggaggacgaa
                                                                     180
atatgagacg gatgccatcc agcgcacaga ggagctggaa gaggccaaga agaagctggc
                                                                     240
tcagcgtctg caggatgctg aggaacatgt agaagctgtg aattccaaat gcgcttctct
                                                                     300
tgaaaagacg aagcagcgac ttcagaatga agtggaggac ctcatgattg acgtggagag
                                                                     360
gtctaatgct gcctgcgctg cgcttgataa gaagcagagg aactttgac
                                                                     409
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      <211> 407
      <212> DNA
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gggtgaagag aaggtggatg caattetttg cgttgctgga ggatgggccg ggggcaatgc
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cagcacggcc ccaacgtgtg tgctgtgcag aaggttattg gcactaatag gaagtacttc
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accaactgca agcagtggta ccaaaggaaa atctgtggca aatcaacagt catcagctac
                                                                     300
gagtgctgtc ctggatatga aaaggtccct ggggagaagg gctgtccagc agccctacca
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ggctgcatga agaaataaat atgaaagagc aaaagattat aagcctgctt tctggcaagg
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totcagcaco cogcaacogg cacoggogot gtocagacog aggocatgaa gcagattoto
ggggtgatcg acaagaaact tcggaacctg gagaagaaaa agggtaagct tgatgattac
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tgtgagccgg actcaggcgg atcttgacag ccttgtccgc gagtgcccgg ggatagaacc
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cgtgtgcgtg gacctgggtg actgggaggc caccgagcgg gcgctgggca gcgtgggccc
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caaggaggcc tttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcgca
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cgagggtcga gccgtgctgc acgtggctct gcggaaccgg tcaaacacac ccatcctggt
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gagaagatat taactctctt tgcatgactg tggttcagaa tcttatggag agaaataacc
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<212> PRT

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Ser His Ser Ser Phe Thr Met Pro Gly Ser Leu Pro Leu Asn Ala Glu
                            40
Ala Cys Trp Pro Lys Asp Val Gly Ile Val Ala Leu Glu Ile Tyr Phe
Pro Ser Gln Tyr Val Asp Gln Ala Glu Leu Glu Lys Tyr Asp Gly Val
                    70
                                        75
Asp Ala Gly Lys Tyr Thr Ile Gly Leu Gly Gln Ala Lys Met Gly Phe
                                    90
Cys Thr Asp Arg Glu Asp Ile Asn Ser Leu Cys Met Thr Val Val Gln
                                105
            100
Asn Leu Met Glu Arg Asn Asn Leu Ser Tyr Asp Cys Ile Gly Arg Leu
                            120
Glu Val Gly Thr Glu Thr Ile Ile Asp Lys Ser Lys Ser Val Lys Thr
                        135
                                             140
Asn Leu Met Gln Leu Phe Glu Glu Ser Gly Asn Thr Asp Ile Glu Gly
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Ile Asp Thr Thr Asn Ala Cys Tyr
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<213> Homo sapien

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<213> Homo sapien

<400> 200

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Val Asp Ile Cys 130

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<213> Homo sapien

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Val Thr Ser Lys Gly Asn Leu Glu Cys Leu Asn Ala Ile Leu Ile His
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Asn Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val Val Ile Ser Gly
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120

180

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      <213> Homo sapien
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                                                                       120
                                                                       180
ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg
gaacgaagtt ggttttttca agcccatatc ttgccgaaat gtaaatggct attcctacaa
                                                                       240
agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg
                                                                       300
ataccetgct ttgggtttgt taaagttttg caetgtaggg ttttgtggaa ttgggageet
                                                                       360
                                                                       420
aattgatttc attcttattt caatgcagat tgttggacct tcagatggaa gtagttacat
                                                                       480
tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa catttagaaa
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aacqcaatta tatccataaa tatttttt
      <210> 234
      <211> 358
      <212> DNA
      <213> Homo sapien
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tggctacaca ctctcactac acacacagac cccacagtcc tatatgccac aaacacattt
                                                                       180
ccataacttg aaaatgagta ttttgcatat ctcagttcag gatatgtttt ttacaagtta
                                                                       240
                                                                       300
atcctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta
                                                                       358
caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggcctttt
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      <212> DNA
      <213> Homo sapien
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gtctagggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa
                                                                       180
tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgtcgtgtag
                                                                       240
tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag
aaagatgaat cctagggctc agagcactgc agcagatcat ttcatattgc ttccgtggag
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```

tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga ggtgaaatat gctcgtgtgt ctacgtctat tcctactgta aatatatggt gtgctcacac gataaaccct aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg tt	360 420 480 482
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<210> 238 <211> 374 <212> DNA <213> Homo sapien	
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<210> 239 <211> 200 <212> DNA <213> Homo sapien	
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      <212> DNA
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atattaaaaa ggaaactaat tggaccattt tctatttgtc tattttatac aaaaaggcta
                                                                       180
                                                                       240
cacaattgat acactctatt cagataacaa tcaattagag tgantatgaa ttactggcga
caccatcact caattcttaa aaattagaaa ttgctgtagc agtattcact ataacttaac
                                                                       300
actaccgaga gact
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      <211> 375
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
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      <223> n = A, T, C or G
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qqctqcctac aqtqctqctt cattqttaqt qqqtqaaqaa ttcaaqacca aaaaqcctct
                                                                       180
                                                                       240
tctqatttat ccaatctttt tattatacat ttatcttttq tcgttatata ctggtgtgtg
atccaagtta tacatgaata gaaaaagatg gtgttaaatt tgtgtgtagg ctgggaattc
                                                                       300
tngctaaagg aatggnaaaa aacctgtnnt tgnaaaattn acntgtccca aagnnaagga
                                                                       360
                                                                       375
anctaaacgc ttttt
      <210> 242
      <211> 387
      <212> DNA
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      <400> 242
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tcaatttcac accetttcat teteataage eccaaatttt geteagttaa ggagettget
                                                                       120
ttaggcccac ctatgtaagt ctgttatact agctaatgtg cccatttgaa tagttcaagg
                                                                       180
qtcaqctaat qctctgaqct tcatggctcc agtataaaga acaaatttaa caaaattaag
                                                                       240
ctqttactqt aqccgagtta cccttctgct ccacacatat gtagtgggat cttgcaggat
                                                                       300
ttccatagtg ccaattatca aaggeettga ctaettagea ttgetgtatt acagatgtge
                                                                       360
                                                                       387
aaactgaggc actgaaaagt caaattt
      <210> 243
      <211> 536
      <212> DNA
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<213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(536)
      <223> n = A, T, C or G
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catattttgc cacatgtgag agtacggtca agcagtattt acaaaaaggt taacggaaca
                                                                       120
acactetgae acatgetetg agaatactgg gactgetgtt teaaaaaaaa aggtteaaae
                                                                       180
ttattqtcac aqcatcatca caaaataqaq qatcaccatt qqtttqcttq qcttttcttt
                                                                       240
tttttttcc cccaagtgag gacctaactc caaataatac aatagaatat gcaaattatc
                                                                       300
                                                                       360
ttcacatcaa gagtacccca agaaaaacga aatccatggc acanacactg tacaagggtg
cagggcaggg ctctgagggg cccaaacccc attttgccaa ctcgattttc tagcattgaa
                                                                       420
gggagcaagg ggtcaggcat atgatggaga tgatactgaa atgatttatc caaaatccat
                                                                       480
gcaaatcaag ttctttggat agaggtgaan aacttggaca tggctgtttc aggcag
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gattggctct gttctgctgc gggaactgaa gcctgtcctg tctcaggggt aacctgctta
                                                                       180
catctggact ttagaatctg gcacacaaca aaagtgcctg gcatccacta ctgctgcctt
                                                                       240
                                                                       300
tcatttataa taatagccct tccatctggc agtgggggaa gaatacactc ttgacattct
tgtctcctgc tttagaatgc tagtgtgtat ctatcatgta tgcaatactt tccccctttt
                                                                       360
tgctttgcta accaaagagc atatatttta ctgtcag
                                                                       397
      <210> 245
      <211> 508
      <212> DNA
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      <400> 245
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aataaatgac gctacgcaag aaccagttaa ctgtacaaac tacacagctc atgtttcctg
                                                                       180
ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg
gaacgaagtt ggttttttca agcccatatc ttgccgaaat gtaaatggct attcctacaa
                                                                       240
                                                                       300
agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg
                                                                       360
ataccctgct ttgggtttgt taaagttttg cactgtaggg ttttgtggaa ttgggagcct
                                                                       420
aattqatttc attcttattt caatqcaqat tqttqqacct tcaqatqqaa qtaqttacat
tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa catttagaaa
                                                                       480
                                                                       508
aacqcaatta tatccataaa tattttt
      <210> 246
      <211> 358
      <212> DNA
      <213> Homo sapien
      <400> 246
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gatttgcaag atgggaaata tagtagttta tgaatgtaaa ttaaattcca gttataatag
                                                                       120
tggctacaca ctctcactac acacacagac cccacagtcc tatatgccac aaacacattt
                                                                       180
ccataacttg aaaatgagta ttttgcatat ctcagttcag gatatgtttt ttacaagtta
                                                                       240
                                                                       300
atcctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta
caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggcctttt
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      <210> 247
      <211> 673
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(673)
      <223> n = A, T, C or G
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gtctagggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa
                                                                       120
                                                                       180
tacageteet attgatagga catagtggaa gtgagetaca aegtagtaeg tgtegtgtag
tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag
                                                                       240
aaagatgaat cctagggctc agagcactgc agcagatcat ttcatattgc ttccgtggag
                                                                       300
                                                                       360
tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga
ggtgaaatat gctcgtgtgt ctacgtctat tcctactgta aatatatggt gtgctcacac
                                                                       420
                                                                       480
gataaaccct aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg
ttctttttt ccggagtagt aagttacaat atgggagatt attccgaagc ctggtaggat
                                                                       540
                                                                       600
aagaatataa acttcagggt gaccgaaaaa tcagaatagg tgttggtata gaatggggtc
tectneteeg eggggtenaa gaaggtggtg ttgangttge eggnetgtta ntagtatagn
                                                                       660
gatgccanca gct
                                                                       673
      <210> 248
      <211> 149
      <212> DNA
      <213> Homo sapien
      <400> 248
cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag
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ggcaacacca agaaggctct gcggagagac tccctgtggg ttggggcctg gcaggaacgg
                                                                       120
tgcctgtgga ctgtttatgg tctgtccag
                                                                       149
      <210> 249
      <211> 458
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(458)
      <223> n = A, T, C or G
      <400> 249
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acaaagagaa gctacaaacc cccctgtaat tcaagaagaa aaacccaaga agaagaagaa
                                                                       120
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ggcacaggag gatctctaaa gcagtagcca aacaccacti agagatggga aaaccattgg ggaggactag gacccatatg ccgagaggac agaatggata taatctgaat cctgttaaat gctgcactgt ttatggaaat accaggacca gtttatgtti ttgtgttggg ggaaatgttg tgggggtggg gttgagttgg tgtacatttg gaacagtgac aataaatgan accccttt	g ggaattatta cctctcaggg 240 t tttctctaaa ctgtttctta 300 t gtggttttgg gaaaaattat 360
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<210> 252 <211> 484 <212> DNA <213> Homo sapien	
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<210> 253 <211> 379 <212> DNA <213> Homo sapien	

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<400> 253
                                                                         60
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totocaatto ottoagoaag aattocoago otacacacaa atttaacaco atottttot
                                                                        120
attcatgtat aacttggatc acacaccagt atataacgac aaaagataaa tgtataataa
                                                                        180
aaagattgga taaatcagaa gaggcttttt ggtcttgaat tcttcaccca ctaacaatga
                                                                        240
                                                                        300
agcagcactg taggcagccc aaaacacacc aaacagtttt ataagtgtag acaccacttc
aaatgatcca accaccaaaa gtacaggggc tattacaatg agaggaagta atgaatatcc
                                                                        360
tataactcca aggacttgg
                                                                        379
      <210> 254
      <211> 387
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(387)
      <223> n = A, T, C or G
      <400> 254
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aggcenttga taattggeac tatggaaate etgeaagate eeactacata tgtgtggage
                                                                        120
agaagggtaa ctcggctaca gtaacagctt aattttgtta aatttgttct ttatactgga
                                                                        180
gccatgaagc tcagagcatt agctgaccct tgaactattc aaatgggcac attagctagt
                                                                        240
ataacagact tacataggtg ggcctaaagc aagctcctta actgagcaaa atttggggct
                                                                        300
tatgagaatg aaagggtgtg aaattgacta acagacaaat catacatctc agtttctcaa
                                                                        360
ttctcatgta aatcagagaa tgccttt
                                                                        387
      <210> 255
      <211> 225
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(225)
      <223> n = A, T, C or G
      <400> 255
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                                                                         60
agcacctttg ataaaatata cttttgtgaa caaaaattga gacatttaca ttttctccct
                                                                        120
atgtggtcgc tccagacttg ggaaactatt catgaatatt tatattgtat ggtaatatag
                                                                        180
ttattgcaca agttcaataa aaatctgctc tttgtatgac agaat
                                                                        225
      <210> 256
      <211> 544
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(544)
      <223> n = A, T, C or G
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<400> 256
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acttgatttg aaatgttttc tatagaaaca agtgctaagt gtaccgtatt atacttgatg
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ttggtcattt ctcagtccta tttctcagtt ctattatttt agaacctagt cagttcttta
                                                                       180
                                                                       240
agattataac tggtcctaca ttaaaataat gcttctcgat gtcagatttt acctgtttgc
tgctgagaac atctctgcct aatttaccaa agccagacct tcagttcaac atgcttcctt
                                                                       300
agcttttcat agttgtctga catttccatg aaaacaaagg aaccaacttt gttttaacca
                                                                       360
                                                                       420
aactttgttt ggttacagtt ttcaggggag cgtttcttcc atgacacaca gcaacatccc
                                                                       480
aaaqaaataa acaaqtqtqa caaanaaaaa aacaaaccta aatqctactq ttccaaaqaq
                                                                       540
caacttgatg gtttttttta atactgagtg caaaaggnca cccaaattcc tatgatgaaa
                                                                       544
tttt
      <210> 257
      <211> 420
      <212> DNA
      <213> Homo sapien
      <400> 257
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agcaatttga taaaatatac ttttgtgaac aaaaattgag acatttacat tttctcccta
                                                                       120
tgtggtcgct ccagacttgg gaaactattc atgaatattt atattgtatg gtaatatagt
                                                                       180
                                                                       240
tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg
                                                                       300
gttatattac caagactttg actagaatgt cgtatttgag gatataaacc cataggtaat
aaacccacag gtactacaaa caaagtctga agtcagcctt ggtttggctt cctagtgtca
                                                                       360
attaaacttc taaaagttta atctgagatt ccttataaaa acttccagca aagcaacttt
                                                                       420
      <210> 258
      <211> 736
      <212> DNA
      <213> Homo sapien
      <400> 258
                                                                        60
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acaaaaacaa aaatttatag ctcggtcaca tactacttaa ataatattgt tcaggcatct
ctaaaatcct ccatgttttc aagtatggaa atagaactca aatattccac aatacagtac
                                                                       180
                                                                       240
taaacagatg gagtatttag gaaagacttt gttgtcatat ggcacaatat taatattttg
                                                                       300
ttgcttcaat acgttttgaa ataaatatca gatttttgtt tttttttcct aaaagaccaa
aattataatc tacattaaga taattctgac tgtggttaag acttaagagt gtaaaataca
                                                                       360
                                                                       420
acatcaatat tttatcacaa aagtaaagct ggtaacaaat tataaaagga gccagtactc
                                                                       480
tactgagaca ggctcggaga ttaaagctca tcatgataga aatagtcatc atggagctgt
                                                                       540
ctgccataat ctgtggcttc actggtgaga aacaagtccg ggttttccag aatctcttct
                                                                       600
tcagagaget ttttgtcacc attcaaatcc atttcatcaa ttagatgaag cgcctcctct
                                                                       660
tgtgcaatgc cctgattatt aggtctaccc aaggtaacag ctcttgggga tcaagcctgc
                                                                       720
categitate titgicataa teatteaceg aatetgiett teteacaagi ateceattet
                                                                       736
ggatcttcat ttgcag
      <210> 259
      <211> 437
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
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<222> (1)...(437)
      <223> n = A, T, C or G
      <400> 259
aaaaccatac tgaaatcatt taccaaataa cnaagatctt aatctaaaag atagtgaata
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catcatcatc atgaaatctg gttttatgtg ctctatgaag tacttggaga attgcttttt
                                                                        120
tatttttctt ttgctttatt aggtcacaca aaacagaatg aattagcaga aaaatgtatg
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ttataaaaca gcatttacta cttcaattta attttttta ctaacaattg tggacctttt
                                                                       240
tgatgacact tatgtatgtt tttaataaat tatgtactta ttagtactta atgagccctt
                                                                        300
cctgcctcaa tataaaatta ctaaacttgg agaattacag attttattgt aggccctgat
                                                                        360
gttagtcact ttggagaagc taaaaatttg gaaatgatgt aattcccact qtaatagcat
                                                                        420
agggattttg gaagcag
                                                                        437
      <210> 260
      <211> 592
      <212> DNA
      <213> Homo sapien
      <400> 260
ttttttttt gaaaaatata aaattttaat aaaggctaca tctcttaatt acaataatta
                                                                        60
ttgtaccaag taattttcct taaatgaact ctttataatg cataatttac agtataagta
                                                                       120
gaacaaaatg tcatgacaaa agtcattgag tacaagactt gtaataaaaa ggcataaaat
                                                                       180
atatttatac ataaacccct ttcaaaaaac aagggaaagc ttgagccctc aatatagggc
                                                                       240
gacacacgga gcgggtgacc gtgcaggtac aggtactgta ctgatttaaa qtcaagcact
                                                                       300
agagatagtg gattaatact cttttgccgt acactatata cagatgtata gtacaagtaa
                                                                       360
caatggcaaa cagaatgtac agattaactt aacacaaaaa cccgaacatc aaaatgaagg
                                                                       420
tgtgtggagg aaaggtgctg ctgggtctcc ctacaactgt tcatttcttt gtggggcagg
                                                                       480
gggtagttcc tgaatggctg tggtccaatg actaatgtaa aacaaaaaca gaaacaaaaa
                                                                       540
aaacaaggaa ctgtcatttc cacgaaagca cagcggcagt qattctagca qq
                                                                       592
      <210> 261
      <211> 450
      <212> DNA
      <213> Homo sapien
      <400> 261
gtggcagggc ccagccccga accagacaag ggacccctca aggagcttca ttctagcatg
                                                                        60
agaaaattga gaagtaaacc agaaagttac agaatgtctg aaggggacag tgtgggagaa
                                                                       120
tccgtccatg ggaaaccttc ggtggtgtac agatttttca caaqacttqq acaqatttat
                                                                       180
cagtcctggc tagacaagtc cacaccctac acggctgtgc gatgggtcgt gacactgggc
                                                                       240
ctgagctttg tctacatgat tcgagtttac ctgctgcagg gttggtacat tgtgacctat
                                                                       300
gccttgggga tctaccatct aaatcttttc atagcttttc tttctcccaa agtggatcct
                                                                       360
teettaatgg aagaeteaga tgaeggteet tegetaeeea eeaaaeagaa egaggaatte
                                                                       420
cgccccttca ttcgaaggct cccagagttt
                                                                       450
      <210> 262
      <211> 239
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(239)
      <223> n = A, T, C or G
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<400> 262
taactttgat gacaaaatct aaaattaaag anttagtctt aaaagcctat agtgacttgt
                                                                         60
ttacttgcat aaataatatt ttcacttagt acaggctatt aatataagta atgagaattt
                                                                       120
                                                                       180
aagtattaac tcaaaaaaag atagaggctc caaacttttc taagaaatta atgcattttc
aaagtaataa tataatcaat ctgtaagtca aaagtaattt catattcatt gccaaattt
                                                                       239
      <210> 263
      <211> 376
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(376)
      <223> n = A, T, C or G
      <400> 263
aaaaaaaaaa aaaaaaaatt ccttgtngtt tnttagagga aaaaaagaaa aaccccaact
                                                                         60
tttancactg atactacata ttgctctgtt aaagaatttt ctctgccaaa aaaaagaaaa
                                                                       120
aacaaaaaaa cgcttaaagc tggagtttga cattctgctt tcagatgctg tctttttatt
                                                                       180
                                                                       240
agtgagtgat gatggtttgc taataatcaa taggtaataa ttttttgtaa tcccatcaag
tggctccata tgtttctgct ctctcgtgac tgtgttaatg tttaactgtt gtaccttaaa
                                                                       300
gccgaaatca gtaactatgc atactgtaac caaggtattg ggcttacaga gttgtttgtt
                                                                        360
gnataaagaa aatttt
                                                                       376
      <210> 264
      <211> 207
      <212> DNA
      <213> Homo sapien
      <400> 264
aaattagcat tocacaaata tacaggtaat ttaataatta ttgtgcatga atacatacac
                                                                        60
aatgcttata tatacaaatt ccagtttgtt ttcatgtgct ggcaagggat ttgtatacaa
                                                                       120
tcataagctg tgttcatatt ggtcccattg aatattcaca atacaaaagc acaaaagaac
                                                                       180
                                                                       207
cattgattta caaaaggaaa tctattt
      <210> 265
      <211> 388
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(388)
      <223> n = A, T, C or G
      <400> 265
naactgcact ttatttgtta ctgtaacatt nttttttaac tgatcaacca taagcatgca
                                                                        60
aaagnccnct gaaactgctt ccactgcctg ttgtataqaa atgggtaaat tataaaggtg
                                                                       120
attcaatttg gagctccttc cttttttata gcacttctaa gctgtgtgcg cgacacacac
                                                                       180
                                                                       240
cacagaggta ggaaggacca cctttaataa attatcttct taatcgcaga gaatttctga
                                                                       300
agataaaact gacaaaatgc taaaccaagg ctttgatgag tcccaaagga ccacagatcc
                                                                       360
atcggctcct atttgaagaa ttcatcccct gtagtgttct agcctttgta gggcactgga
```

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388
ttacaagatc caccagggct ctgaacaa
      <210> 266
      <211> 616
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(616)
      <223> n = A, T, C or G
      <400> 266
aaatacaqaq tcaaaaqatq atttataaaa tntaaaacat tttctgcttg gccgtatttg
                                                                        60
aagacaagct gaatacatat ctatgttctg aataagtcca ctatggatat atataggaag
                                                                       120
agatatacat atatccatcc acagatacac acacacatat atatttctgc atgtatatat
                                                                       180
acataattct ttctataqtt acaqqaaata cttcttctat aattctqatt ttqactccca
                                                                       240
tectecacea tttacteate caeteattae etaaatettg getttette etatattgta
                                                                       300
aataatccat ccaaacttct agccagtact gtcaggaggg ttcttgctcg agtgagctgt
                                                                       360
taatactatt ttccactgac aacttctgca catcgaggac acagtgtatc tgaagactcc
                                                                       420
gctgtatact tccaacaacg ggggcatttt tctttcgtag tcggcatgac aattacttta
                                                                       480
taggaagact cttcacgaat atcaccacct tctaagttga tgaggaattt ccctttaagc
                                                                       540
tcgattacat ctgcagtcat ctctcgtggt tcctgaccag taaagttgac tcagaagcca
                                                                       600
tcattaattc attcaa
                                                                      616
      <210> 267
      <211> 341
      <212> DNA
      <213> Homo sapien
      <400> 267
ccattatgta tgtattttct tgaaaaatac ttatttcagc tacttatttt taatagttac
                                                                        60
                                                                       120
ttattcttqt tqtattqtca tttqaqtttt qtatatattt ttqatattaa ccccttqtca
catgtataat ttgcaaatat tttctccctt tttttagttg tcacattctg ttcattgtat
                                                                       180
cagattctqt gcagcagctt tttaatttga agtgatctga ctgacttgtt cttccttttg
                                                                       240
tgtcctggga tatttaggtt aaatcaaaaa acttgctgcc cagaccaatg ttatggggct
                                                                       300
ttcactctat tttttggtag tagtagttta agagttttag g
                                                                       341
      <210> 268
      <211> 367
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1) ... (367)
      <223> n = A, T, C or G
      <400> 268
                                                                        60
ttgtagattg gaatagcaaa agtgaatgct ntgaccaaaa tttttgccct cctaaataaa
                                                                       120
qacqtntcct tctaqaqaqc aaatctatca taaaatqtca aaactaqaaq aqaataaaat
qaaaqqaaaa aacctaqaaa aatatcctaa aatatcaaat qcaqtcattt ctaaatataa
                                                                       180
gccataatta tagctttacc tattgttctt attgttccta tgctgcttct acaatgttac
                                                                       240
atcaactata cttagcttta ctctcccaaa atcttggtga tgaagccttc tgagtgtgct
                                                                       300
```

```
ttccaatgtg ccagaaccag aagggcattc caaggcttcc ccacatttcc tccatttacg
                                                                        360
                                                                        367
gagacag
      <210> 269
      <211> 270
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(270)
      <223> n = A, T, C or G
      <400> 269
caaatetete ceteactaga egtaageent tineteacte teteaatett atgeateata
                                                                         60
gnaangengn tgaggtggat taaaccaaac ccagctacgc aaaatcttag catactcctc
                                                                        120
aattacccac ataggatgaa taatagcagt tctaccgtac aaccctaaca taaccattct
                                                                        180
taatttaact atttatatta teetaactae taeegeatee etaetaetea aettaaaete
                                                                        240
cagcaccacg accctactac tatntcgcac
                                                                        270
      <210> 270
      <211> 368
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(368)
      <223> n = A, T, C or G
      <400> 270
ctgaatcatg aataacacta tataatagag tntaaggaac acaagcatta gatgtgatcc
                                                                         60
ttgccccata cccttagatt atgtcagact aaagctgaca attctgccag gctctgaacc
                                                                        120
cctagtgccc ccaacccaaa tcttggaagc aaagaatatg ccctgtcata caactttgta
                                                                        180
caagttgtag taaaacaaag cttaagtttt ctcatctttc tacagcaaat ggtcagttat
                                                                        240
ttaataaaca ctaaaatgct cctaagaatc cattttgagt ttgtttacca aacacattgt
                                                                        300
gcaagaactg actacacaaa aagttccttt gaaatttggt ccacaaattc acttaaggtt
                                                                        360
ggaaattt
                                                                        368
      <210> 271
      <211> 313
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(313)
      <223> n = A, T, C or G
      <400> 271
aaatttatat aaaactctgt acatgttcac tttattattg cataaacagc ataatcttca
                                                                         60
agacaanngt ttgcaaacac atgtccaatt caggaaaaaa aatttcacgt ttctcgtctg
                                                                        120
gcttttttct tctttttat ttgtttggga gattcccagc tagtttcaga cttggtctgt
                                                                        180
```

gaaggaggca cactattttg cttggtattt gacttggatt tatctgtctc ttgtagtatt

```
ggcggcactt gggaagagct cttgtcagaa tcactttttg ataagattac agatggctcg
                                                                        300
                                                                        313
gtagaagtag cag
      <210> 272
      <211> 462
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(462)
      <223> n = A, T, C or G
      <400> 272
aaaaaacatt tattttaata agactattgc naacacatta aaaaaactaa atagtaatat
                                                                         60
tacaaaatct atatacttgc acatttagta tttgtcaatg tgccagaggt tttcttcatg
                                                                        120
aaatttgact totttgaagt gaaggotttt ttotatcato tottatagot otgactgaat
                                                                        180
aagtettaat getttettea tgttttetat caataggggt aaateeegag geteatatgt
                                                                       240
                                                                       300
gtacaatctg ttagagtatc ttccagctat gtcagctcta actgttaaag aagggtctac
aaacatgatt ctaggcacat attgcccatc aggtgataaa ttcttatcag tggtttcatg
                                                                       360
                                                                       420
cataaggttt agcatgatga acttattctg agccatttct tgtatttctt cattttgggc
                                                                       462
aaatactttc tttagtgctt gagagtattg acaatcctcc ag
      <210> 273
      <211> 282
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(282)
      <223> n = A, T, C or G
      <400> 273
ctgatcaaag catgggatat tttaatagtn ttatacataa tatttttaca tagaaaactt
                                                                         60
tacatnncat ttcatattat ataattctgc ttattctttc aaaaatttat acatccattg
                                                                       120
ggcaaggaat ggttttcatt aaattaccaa tattaaatgc acttaatcat tgtgtatagg
                                                                       180
ttaaaccaaa gtaactatta actaactttt aggcatttta aggaggtaaa acatacattt
                                                                       240
tacacataag tatttgatgc aaatatgcag ataaaatttt tt
                                                                       282
      <210> 274
      <211> 125
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(125)
      <223> n = A, T, C or G
      <400> 274
cagocotaga cotoaactao otaaccaacn tinottaaaa taaaatooco actatgoaca
                                                                        60
ttnaatenet ceaacataet eggattetae eetageatea cacacegeae aateeeetat
                                                                       120
                                                                       125
ctagg
```

```
<210> 275
      <211> 528
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(528)
      <223> n = A, T, C or G
      <400> 275
aaagctgtgg aaaagcttta ttatagattt ttntacagaa ttaaaaaagt tcaaacaata
                                                                        60
ataagccngg aaccacaaat aattaaaagg aaacacagca atcccataaa caagcattct
                                                                       120
ggcatctgtt agaaattttc cctcaaatta tgaaatgtag ctctccatgc tttccaatga
                                                                       180
ttgttataat acccacaaat atctgtgatt tcagtggaat actttaacaa aagttttctt
                                                                       240
tttaaggcat gatcctgatt cattttttct tcaatatctc agtcatttca ggaactacct
                                                                       300
taaataaatc tgcaactatt ccataatctg ccacttggaa aattggagct tctgggtctt
                                                                       360
                                                                       420
tattaattgc cacaattgtc ttgctgtctt tcatcccagc taaatgttgg atggctccag
atattccaac agcaatataa agttctggtg ctactatttt tcccgtctgn ccaacttgca
                                                                       480
                                                                       528
tgtcattggg aacaaagcca gcatcaacag cagcacggga agcaccaa
      <210> 276
      <211> 420
      <212> DNA
      <213> Homo sapien
      <220>
     <221> misc feature
      <222> (1)...(420)
      <223> n = A, T, C or G
      <400> 276
aaatgtcttg tttcccagat ttcaggaaan ttttttctt ttaagctatc cacagcttac
                                                                        60
agaaacctga taaaatatac ttttgtgaac aaaaattgag acatttacat tttctcccta
                                                                       120
                                                                       180
tgtggtcgct ccagacttgg gaaactattc atgaatattt atattgtatg gtaatatagt
tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg
                                                                       240
gttatattac caagactttg actagaatgt cgtatttgag gatataaacc cataggtaat
                                                                       300
aaacccacag gtactacaaa caaagtctga agtcagcctt ggtttggctt cctagtgtca
                                                                       360
attaaacttc taaaagttta atctgagatt ccttataaaa acttccagca aagcaacttt
                                                                       420
      <210> 277
      <211> 668
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(668)
      <223> n = A, T, C or G
      <400> 277
ccagggtggc tctgatatag cagccctggt ntattttcga tatttcagga agactggcag
                                                                        60
atngcaccag accetgaatt ettetagete etceaatece attttatece atggaaccae
                                                                       120
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<212> DNA

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taaaaacaag gtctgctctg ctcctgaagc cctatatgct ggagatggac aactcaatga
                                                                       180
aaatttaaag ggaaaaccct caggcctgag gtgtgtgcca ctcagagact tcacctaact
                                                                       240
                                                                       300
agagacaggc aaactgcaaa ccatggtgag aaattgacga cttcacacta tggacagctt
ttcccaagat gtcaaaacaa gactcctcat catgataagg ctcttacccc cttttaattt
                                                                       360
                                                                       420
gtccttgctt atgcctgcct ctttcgcttg gcaggatgat gctgtcatta gtatttcaca
agaagtagct tcagagggta acttaacaga gtatcagatc tatcttgtca atcccaacgt
                                                                       480
                                                                       540
tttacataaa ataaqagatc ctttagtgca cccagtgact gacattagca gcatctttaa
cacagoogtg tgttcaaatg tacagnggtc cttttcagag ttggacttct agactcacct
                                                                       600
gttctcactc cctgttttaa ttcaacccag ccatgcaatg ccaaataata gaaattgctc
                                                                       660
                                                                       668
cctaccag
      <210> 278
      <211> 202
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(202)
      <223> n = A, T, C or G
      <400> 278
                                                                        60
aaattggtat cgacggcaac caggggaagn tnctaaactc ctaatctatt ctggatccaa
                                                                       120
ttngcnaagt ggggtcccat caaggttcag tggcagtgga tctgggacag atttcactct
                                                                       180
cacgatcagc agtctgcaac ccgaagattt tgcaacttac tactgtcaac agagttacat
                                                                       202
gtccccgtac acttttggac cc
      <210> 279
      <211> 694
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(694)
      <223> n = A, T, C or G
      <400> 279
                                                                        60
ctgtacttgg acaaaataag ttaattctat ttggttgtcc attaaagttt tatgtggcta
tgnacccact ggagctaaaa attggctttt aactgtttcc aaatcagaac tagcagagga
                                                                       120
gagaagtaaa taaagccaat ggcactccct tcagaggctc aaaatggtta gattttgatg
                                                                       180
                                                                       240
cagatttaac cttagcgagt ttcagtcagt ccatttagat gatcctgtag gttcatacaa
                                                                       300
atacactgaa ccgttggttt aacttctctt ccttcctcaa agtttatgat aaagagactc
atccctgtat tgggagtgac tgacataagt tcagatctgc tcagagtggc tggtaaggaa
                                                                       360
cacttaaggt cagtcagaaa ataatcaaac agacttctca tgtaagcacc gtgactcaca
                                                                       420
                                                                       480
actaagacac tggctgctaa tcctggaata ccgctgtctg aattaacttt agagctgtga
                                                                       540
ttttttccta aaggaaatat ctctgccaaa gaagtttcca gacagntgct tgggagatcc
                                                                       600
ttggggaaaa ctggtctttt tgatccggtt ctttcangan taggtngaca aaagaaatnc
aaaaaagnct atcccacgcn tttntcacct gggcccagcg gnnctcctcc nggggggggn
                                                                       660
                                                                       694
aaacacangg gactcttccc ngggctngct tnng
      <210> 280
      <211> 441
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<213> Homo sapien <400> 280 aaaaaacttc catgcaactt ctggtttatt gtttggcaac tccacatgat aaaaaaataa 60 aaacagccca accgagtttc ggaattaagt attcttctag taagtgattc aaacttgtaa 120 tatttgccac aggactgact tatttattta ctagctagaa gctcttaagt tcacttgttt 180 240 atcagggcat atacagaagg gtttgttaaa actcgatgtt aactttacaa ctttctgacc tggtgcatga attctcaagt actgtatttc actgtgttgg tgtgtctgat ggaaatttcg 300 360 aggtggtccc acaaaaatat tttatgtagt gtgccttcaa agagaaccat ttatttctct 420 tcacttatcg tcccacaaag tcacatttgg tggtggtcag ccaagtcgca tctggtctag ttttactctt gtcccaattt t 441 <210> 281 <211> 398 <212> DNA <213> Homo sapien <400> 281 aaatttgtta ggtctgaaga atctaaaact gttaatttaa cccttaactt gtgcctagaa 60 actacagcac atataaaata tgtaaacacc agcctgttgc tgtacttttc tgcttatttt 120 acagceteaa atatttetea ttatettgte acttagttet teatgtttet eettetgaet 180 tttaataatg gtaataggaa aacaaaaccc aaagcttttc agaacttcag tgtgaggttt 240 cctattttga caagttaact tgtaaatact caggttttac gatgtataat ttacctaata 300 gaccaaacta actcatggag atattttgaa ctattattta ggtacaaact ttataaagaa 360 398 tgttagtatg tcataaaata taacattaca gcttattt <210> 282 <211> 226 <212> DNA <213> Homo sapien <220> <221> misc feature <222> (1)...(226) <223> n = A, T, C or G<400> 282 60 aaaacaatat tctctttttg aaaatagtat naacaggcca tgcatataat gtacagtgta 120 ttacnccaat atgtaaagat tcttcaaggt aacaagggtt tgggttttga aataaacatc 180 tggatcttat agaccgttca tacaatggtt ttagcaagtt catagtaaga caaacaagtc ctatctttt ttttggctgg ggtgggggcg cccaggccga ggctgg 226 <210> 283 <211> 358 <212> DNA <213> Homo sapien <400> 283 aaacaaaat actcaagatc atttatattt ttttggagag aaaactgtcc taatttagaa 60 tttccctcaa atctgaggga cttttaagaa atgctaacag atttttctgg aggaaattta 120 180 gacaaaacaa tgtcatttag tagaatattt cagtatttaa gtggaatttc agtatactgt actateettt ataagteatt aaaataatgt tteateaaat ggttaaatgg aceaetggtt 240 300 tcttagagaa atgtttttag gcttaattca ttcaattgtc aagtacactt agtcttaata

cactcaggtt tgaacagatt attctgaata ttaaaattta atccattctt aatatttt

<210> 287 <211> 340

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<210> 284
       <211> 288
       <212> DNA
       <213> Homo sapien
       <400> 284
 aaaacttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat
                                                                         60
                                                                        120
 agtctagtaa aattttgaca gtgcatatgt actgttacta aaagctttat atgaaattat
 taatgtgaag tttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat
                                                                        180
                                                                        240
 ttatgtctac atatttgtgt gtgtgtgtgt gtatatatat gtaatatgca tacacagatg
                                                                        288
 catatgtgta tatataatga aatttatgtt gctggtattt tgcatttt
       <210> 285
       <211> 629
       <212> DNA
       <213> Homo sapien
       <220>
       <221> misc_feature
       <222> (1)...(629)
       <223> n = A, T, C or G
       <400> 285
 cctaaaagca gccaccaatt aacaaagcgt ncannctcaa cacccactac ctaaaaaatc
                                                                         60
 ccaaacatat aactgaactc ctcacaccca attggaccaa tctatcaccc tatanaagaa
                                                                        120
                                                                        180
 ctaatgttag tataagtaac atgaaaacat tctcctctgc ataagcctqc gtcagattaa
. aacactgaac tgacaattaa cagcccaata tctacaatca accaacaagt cattattacc
                                                                        240
 ctcactgtca acccaacaca ggcatgctca taaggaaagg ttaaaaaaag taaaaggaac
                                                                        300
 teggeaaate ttacceegee tgtttaccaa aaacateace tetageatea eeagtattag
                                                                        360
                                                                        420
 aggcaccgcc tgcccagtga cacatgttta acggccgcgg taccctaacc gtgcaaaggt
 agcataatca cttqntcctt aattagggac ctqtatgaat ggcttcacga gggttcagct
                                                                        480
                                                                        540
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 agacgagaag accctatgga gctttaattt attaatgcaa acagnaccta acaaacccca
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       <211> 485
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 cctataatct atagacatgt gatagcaaaa gaaacaaaca aaagccagga aaacactcat
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 tttcgccttg aatatgtaaa tgggattaat tttgtcctgt gccttatgtg gaaaggaact
                                                                        300
 tetttggttt teettttttg ttetggtgga ageatgtgea ggagaeatat cateeaaaca
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 taaaccatta aaatgtttgt ggtttgcttg gctgtaattt tcaaagtagt taattgagga
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gtcagtccag ccttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc
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ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttggcc
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tcaagcttgc ctttcccttg agtccctctc tcccctcggc tctagccaga ggtgtagcct
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gcagatctag gaagagaaga gctggggagg aggatgaagg
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cgcaatttta ccttctgtct tttcagctac ccaggtgttt atgtgttttc tggacttctc
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tacggcgctg ataaagtcaa gctcctccat ctctgcttgg tagaattttt ggcaggaatc
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tctaaaagat gagaggaaat cacaagactt ttccccaaag agcctgttgg
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      <211> 404
      <212> DNA
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aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat
                                                                       120
accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc
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tgcaagttcc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatggtt
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ctgtgctcac cattagattg atggttgaac tagaagctga ccttgctggc tgtggaggtg
                                                                       300
ggggctgaga tttctttgta ctgaaacttc cgtggtaggt ggctctgacc tgagacctca
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      <211> 384
      <212> DNA
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      <221> misc feature
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                                                                       120
cctccatcca gttgttgaag ggtgcagccc gcttggcata ctccaagtac agctggtcaa
                                                                       180
tggtctccag cagtttctcg gtccgctcca gagcttccct tcgcttctga gttagggccc
                                                                       240
ccagattgtc ccactggtca cagatctttt ggcaacgggc gttgacactg ggtgagtcat
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aatantecag eteattgage teetgtgega tggeggeaat etgeteeaca eggteetggt
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accca
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      <211> 397
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      <222> (1)...(397)
      <223> n = A, T, C or G
      <400> 295
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caattatgcc aaaagacatc cagctagcac gccgcatacg tggagaacgt gcttaagaat
                                                                     120
180
                                                                     240
cctgttattg gtagttctga acgttagata ttttttttcc atggggtcaa aaggtaccta
agtatatgat tgccgagtgg aaaaataggg gacagaaatc aggtattggc agtttttcca
                                                                     300
tttncatttg tgggngaatt tttaatataa atgcggagac gtaaagcatt aatgcnagtt
                                                                     360
aaaatgtttc agtgaacaag tttcagcggt tcaactt
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      <211> 447
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                                                                      60
aaggtgcage egtactgetg gaagtaggee etgttetgea egtegateat eetettggea
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tacgagtacc caaaattgct gttgtgggga ggcccattgt ggatcatggt ctcatctatc
                                                                     180
gggtaggteg tettgteagg gaagataeag gtggaeagge aggaeaeeae ettgegggeg
                                                                     240
cccacctcga aggccgagtg caggacgttg tcgttcatqt gcacgttttt cctccagaag
                                                                     300
tocaaattgt atttgatatt coggaacagg coccocacca ttgcagcaag atggatgacg
                                                                     360
tgtgtgagtt ggaccttctc aaacagggcg cgggtctgtg ctgtatccgt gagatcggcg
                                                                     420
                                                                     447
tctttagagg agacaaacac ccagtcc
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      <211> 681
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      <220>
      <221> misc feature
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ctgttctctt tttcattttc agctctggta agggcaggga ccaccctgca ggaagtgtca
                                                                     180
atgatacget gataagette ttacttetet cetgteagtt ggtgeteece etgtgatgag
                                                                     240
aaaagggtta ctgttgcagg tgctaaggaa ggctgctctt ctgtcactct gaagttgctt
                                                                     300
                                                                     360
ggagggatgt ccccatgcag actctctccc agccctccac tcagggaagg tctgtctgta
cccactgcct tctatagcag aaaacttgca ctcctgaatg ctttttttt ttttcaagaa
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agaagnggct gnggactcaa ctagattctt ggtttgaaaa agccaaaaca tattggtcac
                                                                     480
tgattgtcac attgggttag aaatgtccat tcatgatctc ccttaagctg cacacaaccc
                                                                     540
tatgaaataa ctaccattat ctaccctatt ttgctaaagc tcaaagagat taaataatgt
                                                                     600
tgacagggat cttagccttg aactcactga aggngttact gcaaagttct gctcttcacc
                                                                     660
aagaaggntt acaggccaaa g
                                                                     681
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                                                                     180
gngatgaagc tccagccct ggaggtccaa aacccagtcc aaactcagtc cctttagaaa
                                                                     240
                                                                     300
gctgctgtgc cttggaaatg annntcggnt gtcanagcct gggaagtggt gggaagaacc
                                                                     353
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acccagacac tgggctaggc tgcaacttta tctcatttaa tactcccagc tgtcatgtga
                                                                     120
gaaagaaagc aggctaggca tgtgaaatca ctttcatgga ttattaatgg atttaagagg
                                                                     180
                                                                     240
gcatcaatca gctcaactca agatttcata atcattttta gtatttagat tgtgcctcaa
                                                                     300
agttgtagta cctcacaata cctccactgg tttcctgttg taaaaacctt cagtgagttt
gaccattgtg ctcttggctc ttgggctgga gtaccgtggt gagggagtaa acactagaag
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                                                                     420
tetttagtae aaaactgete tagggacace tggtgattee tacacaagtg atgtttatat
                                                                     480
ttctcataaa gagtcttccc tatcccaagg tcttcatgat gccagtagcc atatatgata
aattatgttc agtgataact tagttatcag aaatcagctc agtggtcttc cccgccatga
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attctaatat attactaagg caattttaat gaattaccat gtatataaaa aaatatctgn
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300
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qgattccaac cattaaaatc tccagtaaga aaaactcctt ctgctcccgg ggcccattct
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ttgcagtata aaccaccatc agcacatctg tggacgccaa atgattcata gcctctggaa
aacttatcaa taccaccttc attttctcca atgttcttca aaatttggct aaactgctta
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gaaccetegt aagaaatagt caaacacatt aagteettte cagetgteee tagaaagetg
                                                                       120
ctgttctctt tttcattttc agctctggta agggcaggga ccaccctgca ggaagtgtca
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atgatacqct qataaqcttc ttacttctct cctqtcaqtt qqtqctcccc ctqtqatqaq
aaaagggtta ctgttgcagg tgctaaggaa ggctgctctt ctgtcactct gaagttgctt
                                                                       300
ggagggatgt ccccatgcag actetetece agecetecae teagggaagg tetgtetgta
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cccactgcct tctatagcag aaaacttgca ctcctgaatg c
                                                                       401
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                                                                       180
tetttatate tqaqqacaqa caggettegg teagacagea etaagggeaa catggagetg
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tttcaaatgc cacgctgacg tcacgcctgg cctgaaattt cacatcacta acatctgacc
                                                                       300
ggatgageet etaaaaataa aacaatettt agaegateea gaetaatgga aggaeagaga
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gctgattttt cttatgagat ggaaaaaaaa aatcagccaa gtaagggcac atcttcactt
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                                                                       180
catttataag tcagcatcca aggtaaaaga attctctgtt ggacttgaca tcactcccat
                                                                       240
cctctgatac tcgcctactc tcttctcaaa gaagttagnt ctttccttcc antgaaatat
                                                                       300
tctcataaaa qtcaaatqqq ttctctactc tgaaaacctt qctaaaaccc aattccaqca
taaqtttqtc tgncacaaac ncaatgnatt gcttcattaa antgcaattc atcccaatga
                                                                       360
                                                                       366
gcttcc
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ctgatgtccc ggatgccatc atataccagg cgggaagcat cgataaactc attctcatcc
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atgggctggg cagggtccga gctgagggct tccacggctg cttctacttg ctcagtaaaa
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cgtggcatga ctgtgttgga gagcagctta gtggcttcca gaaccttctc tgtgtagact
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cctggctcat agtcgtccat ctctgaggtg actacgtgaa tgacccgggc tgcccggcct
                                                                       360
cgaattgcac cagetgtgcg gecaggecat ccacateett etettggaga geaatgacae
                                                                       420
atttggtcac atcttccaaa atgtgattct ctgagacagc caagaagtca tcaatggaag
                                                                       480
taatgncatc gacagcatct gtgagaacac cgacttgttt ttccattgnt cttt
                                                                       534
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acctccctca ccaaagccca taaaaataaa aaattataac aaaccctgag aaccaaaatg
                                                                       120
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                                                                       164
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      <212> DNA
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atagcaagga agggaatcaa acatttataa gatatattta ttattttct gaccaaagtg
                                                                       120
caatgatttt t
                                                                       131
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agctggaggc aaacagtcag tgagagtgga ggctccagtc agacccgcca gatccttggg
                                                                       120
cacctggcac tcaagcactt tgcacgatgt ctcaaccaac atctgacatc tttcccgtgg
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agcaacttcc tgctccacgg gaaagaggtc gatggattta cccctggacc cataagtctg
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ttcatcctgc tgaagtcccc tccccattgc tccttcaagc caaaactaca ctttgctggt
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tectgteec tetgagaaag gggatagaaa geteetteet etatgteete eeategagat
                                                                       360
ctgttctggg gatggagett ccaacttect cttgcagcag gaaagaatge tgctcaccet
                                                                       420
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tctgtcttgc agagtgggat tgtgggaggg attggcagcc ttcttctcca ccacctgtcc agcttcctcc tggtcagggc tgggaccccc aggaatatta tgttgccgtg tgtgtgtgt tgtgtgtgtg tcttctttta gggagcagga gtgcatctgg taattgaggg tagatgttgt gtgtgctggg gaggggtcct tctgtt <210> 312 <211> 616	480 540 600 626
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cagatatgac ccaagggata cgtaccatct cttcttgaaa cagcgtgtca aattatatat	240
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cttaagcaca gtctctggca cagaataaat acgaaatgaa tgagtgaatg aatggatgga	480
tgggtgaaga gaaaaggcaa tgcacaagat ttacctatca aaatccacca atggtcctta	540 600
aaaatggttt tgtcagtaga gatgctgaat atattcatat aatacattta tttcaatact attaagaatt ctagtg	616
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gaaggactgt tttggtacaa actcaagcca gctacatgta tgcttgcctt ggtatccttg	180
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ctctgacttg gaacaaaatg ccactccatt catgttcatt tttgtcctgg agaggattta	360
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ctcaacactg cagatgtctg agcactacca taacctaacg aagtgaggaa ggaggaggca	540
aattggtatt ttt	553
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tggacagett cttgatgetg ttgaggegaa getgaaegte etcattgegg agttegteta	240
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	200

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ttaatcagtg catgaaattt gcttttttaa agttcatttg aatgattatt ccttccctct
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                                                                       240
aaagaaatga ttttggtaat gttgagaggt accttaccac aaatcctaac tgtaagtgta
                                                                       300
ttcatggtta ttttcaaaag aattatgact cttccccaaa agaatcctaa aaaacttgta
                                                                       360
ataaacctat aaagctgatt tgcatattta caaaattttg aatagcaaat ataggcaact
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                                                                       180
aaatatttaa ggacaacata aggtattaat attggaaaaa aactgtacat attttcaagc
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acagegeeca geagtttgea gaaactgege acaagettge catgaageac aaatgttgag
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acaagaattc gggacctccg cttgcttctt tttttccaat atttggacac ttagagtggt
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ctaatgatet tgetaataaa tgetacaata geateggett cattttgggt ttttgeetee
                                                                       360
                                                                       420
tcccactgtg tgtatgtgtg tatatgtatg ttttgaatat gttttcttta ttaaaaaata
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ttttttgtag tttgaatatg aaatttggac caaatgataa actgcgctga gtctaaactg
gcaacatgta
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      <211> 340
      <212> DNA
      <213> Homo sapien
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gtcagtccag ctttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc
                                                                       180
qqaqqcaqqa qqcccaqctq qacctccqaq qqccatqaqc aqqcaqcaqc catcttqqcc
                                                                       240
tcaagettge ettteeettg agteeetete teeeetegge tetageeaga ggtgtageet
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                                                                       340
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gctgattttt cttatgagat ggaaaaaaaa atcagccaag taagggcaca tcttcagttc
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atttagaagt cagcatccaa ggtaaaagaa ttctctgttg gacttgacat cactcccatc
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ctctgatact cgcctactct cttctcaaag aagttagtct ttccttccag tgaaatattc
                                                                       240
                                                                       300
tccataaaqt caaatqqqtt ctctactctq aaaaccttqc taaaacccaq ttccaqcata
                                                                       360
agtotytoty coacaaacto aatytattyo ttoattagay tyoaattoat gocaatyayo
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ttcacaggca agg
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      <211> 509
      <212> DNA
      <213> Homo sapien
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                                                                       180
tttgcttcct taagttttca acatatcatt tatatttaaa ggcagacact gagtcagtat
                                                                       240
taatagatta actaaactgc actgtaattt agataaaatt actgtgtctc actgtgtatt
                                                                       300
acatgcaaaa tccacataaa ttgtcattta accaacagta ctgcacgagc gaacatctcg
atatatgaaa actgcatcat caattcaacg ttttggtact tgaaactgca tcataaatgc
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                                                                       420
aacattgtca tatgtgaaaa cgacacccta agtccttctt tttaaaaaatg acattgcgtt
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tagettattg taagaggttg aacttttgta ttttgtaact atetttaage tetteagttt
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ataattcata taaaatgcct tttgtattt
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      <212> DNA
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                                                                       180
aggageteca gaaacgette ateetgaate tgecaacett cagtgttega ateattgaca
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aaaatggcat ccatgacctg gataacattt ccttccccaa acagggctcc taacatcatg
tcctccctcc cacttgccag ggaacttttt tttgatgggc tcctttattt ttttctactc
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                                                                       360
ttttcaggcg cactcttgat aaatggttaa ttcagaataa aggtgactat ggatataatt
                                                                       420
gagccctctg gtccaggtct cagtttacct aatattacct cagaaaggat atggagggaa
                                                                       480
gatgatettt ttgccaggte tgaettttet teetgeteeg ceetecatta aegeteagta
                                                                       540
ccctttagca gctgacggcc ccacgttcta ctccatgctt ggcttccttt ccaactagct
                                                                       600
ctttcatata ttttacttgc tagtatctcc attctctcta aagtagtggt tctttttgcc
                                                                       617
cttaaactta aattttt
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      <211> 403
      <212> DNA
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      <400> 322
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tcaagtacca aaacgttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg
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agtaatttta totaaattac agtgoagttt agttaatota ttaatactga otcagtgtot
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gcctttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat
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ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg
                                                                        360
                                                                        403
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt
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      <212> DNA
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gaaaacctac catctcagtg agcaccagct gcctcccaaa ggaggggcag ccgtgcttat
                                                                        180
atttttatgg ttacaatggc acaaaattat tatcaaccta actaaaacat tccttttctc
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ttttttcctg aattatcatg gagttttcta attctctctt ttggaatgta gatttttt
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ataaaccatt gtgtacat
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tgatcatatc ctgcagctct gcttcagtgg ggttctgtcc cagggatctc atcactgtcc
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ccaactcctt ggtggtgata gtgccatctc catccttgtc aaagagggag aagg
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                                                                       120
cctattcttt ggacataact atgaattttg tatacaatgc acttcatgaa aagttgtggc
                                                                       180
                                                                       240
tcccccagat tgcccacaag tgtgatcttg aagtcctaaa catttgtcca tgtaagcttc
aaaacagcgt taactgagtt attcaagtag cagtacttaa agatacaatt cttgaagcag
                                                                       300
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tttcaatggt ttctgatcca aataatcagt ttctgaacat tactacttca cataatagag
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ggccaccagt tctttgggta ctatcaagat acttccatca tgggtacact ggagagcata
                                                                        480
gtggttggga ttgactggcc taccttggtc atctcttaat ctactaaaaa tatcatqata
                                                                        540
aaggtcatgc agtttctgtt tcattatgtt aatagctttg gtacattgtg cttgctctct
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cttaanagtt teettettg ettgeaagtt acatacatea tettetaaat teaaaattat
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gtccattttg gcgtttacc
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cagttaccaa agcctanata cgcgttagat gcgccttttc cggcctgtgc gtctgctctg
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gttcctctca ggcagcaaag ctggggaagg aagctcaggc aggagcctcc ccgacgccac
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aacggcacaa gcagcagcta aagcaccgca ctttgctcta ctaacctttt acttaaatga
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ggttttgcca aatccacatc tggaaccgcg tcacacccat ttgcaaggat gtttgttctt
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tgatgaaact gcatctctac tgcacatgag ggctttcatt gtaggacaag aggagagttc
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gtttattttt gtaactgttt tacatgttcc gattagttaa tcggtagctt atgtcatttg
                                                                       480
ctatgcctgn agnettetaa teteteetta etaaaacatt aetteaaatt tgaattgace
                                                                       540
cttggttata atttatttag ccgggatttg tgtgtcattg tagagcaact ctaattcaag
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aatagtgaca acttttaag
                                                                       619
      <210> 328
      <211> 132
      <212> DNA
      <213> Homo sapien
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taattgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaact
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agcatatgaa tc
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aataaaatta actccgttac aatcagcatt catttcctcc aattaaaatt aagcataaac
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                                                                     240
gcaaaaacaa tattcaagct tgtctgatta tgcatatttt ctttaatcat atagattata
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tatacaatag acaagacagg actatataga taatggacag acttaaatgc ccgcattttt
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aaggtggaga aaatgatgaa tctatgcatc cccgagaaca cttaaaattt ttttttattt
cactgggaaa ttcttacagc tactttacaa tcataggtta acagcctagt tatacagaag
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acatattcca ctacagagct atactctatg caactgtttt ttcccctcat aaacaacctg
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agttcaaatt qaattctatc ttccacaatc acaatgggtg catcacccag tacacagaag
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tttgaatcac aaaacataat taccacaata aaacacagtg ttcaagtatc ttggcagagc
aatctgccgc acaaactgca aattaaatta actacacaga ctaaaaacta tacagcctac
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catcacagtt gtgcattata aaaaagggag tttctttcct ttggttttaa gtcaggaaca
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gggtaggatt ttttaccctc nggccgggga ccacqctaaa ggggcgaaat ttcttgccan
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tgccctcacc agcttgtgta ttttcacaaa aacgctcccg atcatctcgg caagcaaaat
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ataaatgccg gtctaagtga aagtcatccg atgacagctc agccacccgg agaatggctt
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tettgeagag tteagaaact tgaatettgg gttetettte ttetgettet tteaceagg
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      <211> 573
      <212> DNA
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                                                                     180
                                                                     240
gaaaatttaa tatcttctca aacaggcata agatgaagaa gtgctatttt ttaattgtaa
aaggaactta tgtaatgtaa aattacatta taatttttca ttccgaattg acaaatgatt
                                                                     300
tcaaaaacaa ggatcaaagt ttgactgcaa atagtaatgc aatataattt cataaaaatc
                                                                     360
cttcaatttc tattttttc cttttctgta gttgacatat gaagaccact tcaatttcta
                                                                     420
                                                                     480
aaaaagggaa ccattccaat tttccctccc caagaaaatg tctcacaatt acaaagtaga
                                                                     540
aaaacagccg ttcataaatg caaaaaaatt ctgatttata tatgaaataa tttctagatc
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tgtccttttc tggttgcctc tctatgctat tgtgttcaga tacttacacc ataattaaac
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agtaagttat agacttgctg agtttggcat agatagtgcg ctcatttaat ctgtgcctct
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caaaacttca gaatattagc atattaccac aaataatttt tggtgaaact attgagatat
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taaaattttt gaaatcacta ctgttacctg ttatagaaaa tagtgttggc ttagtctagt
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ctctgtgtaa ctggttacat tttgatggtt gtctatactc aactggatat gtgtatgtaa attagaaaat acatacctat ccagacataa atgctaagta acatttttt cttcctccaa ctacataatt tgtagctcat catttttcct taatcctttc ctaacttgtc gcagcagttt gaatttccca gatatttatg tttgaacata atggctcaga atacatattt gaacatcata gttgtatata ttttt	360 420 480 540 555
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<210> 336 <211> 429 <212> DNA <213> Homo sapien	
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agacettetg attgaagtea tgtacagtte agtggeetaa attetetgee tttttaaett getttgeaag eetactetga aaataagtta tttagteaag ttatteteaa agatgteeea gttgeetaga aaggateaaa tggaaeattt gacacacata eteaaaaaaa tgtaaetgae tataaacact ttaaeetaat eatetgtate aaaettteta aaaateaaat eteaggattg tteeaettta gagattetat gtaaagttta tataaetata ettgteaaat ageaeetate tatgeattt	180 240 300 360 420 429
<210> 337 <211> 373 <212> DNA <213> Homo sapien	
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<210> 338 <211> 366 <212> DNA <213> Homo sapien	
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<210> 339 <211> 319 <212> DNA <213> Homo sapien	
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                                                                       120
ttcctagcca tgcactactn accagacncc tcaacngcct tttnatcaat nggncacatn
                                                                       180
actoganacn taaatnatgg ctgaatcatc cgctacctnc acgccaatgg cagcctcaat
                                                                       240
                                                                       278
attetttatg etgeetette etacacatge gggegagg
      <210> 341
      <211> 400
      <212> DNA
      <213> Homo sapien
      <400> 341
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ggcttctcaa catcaacccc aacaagacct cggccagcgg gagctgcggc gcccacctgg
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tgactctgga gctgcacagc gagggcacca ccgtcctgct cttccagttc gggatgaatg
                                                                       180
caagttctag ccggtttttc ctacaaggaa ttcagttgaa tacaattctt cctgacqcca
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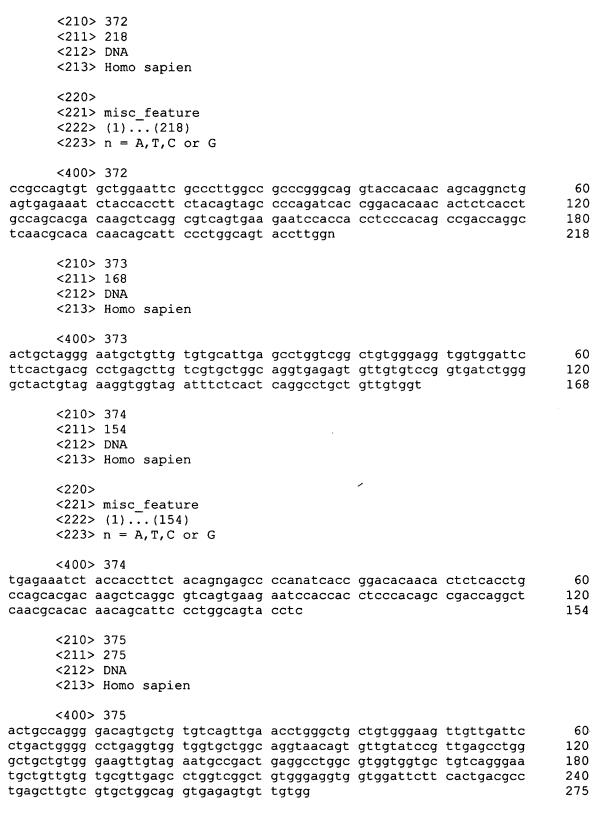
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      <223> n = A, T, C or G
      <400> 371
aaattacata totaattgtg tgatttgtta aatgoocatt tottoatota agtgotaagt
                                                                        60
gctaagtgta gcagtttgtt ccctgctaca ctccaaggca caaaggagtt caaggaatgt
                                                                       120
gcaatggaaa tcagttagat gaatgtgtta ggaaccttcc ctttaataaa gctggatccc
                                                                       180
acactagece etacacecte teateaceaa atatteetge tteeteteae etgeaettge
                                                                       240
tgttctctcc tctgccacac aaatctacct ctcaagccta ggtcccacct gcttcatgac
                                                                       300
aactttccag actattccag aacctttaac catctctgac ctctcatcag atctatgttg
                                                                       360
tacataacac caattaatga gatcattact gctttatgct ctaattgctt cctgtattca
                                                                       420
                                                                       480
aaatettete teeaaceaca taatgactee etaaaettet ettgtatttt eeaatgeett
gtacaagcac agaactggtc aatcaataaa tactcactgg ttatttgagg aaaaaatgtt
                                                                       540
gccaagcacc atctttatca gaaaataaat caattcttct aaacttggag aaatcaccct
                                                                       600
                                                                       660
attoctagta tgtgatotta attagaacaa ttoagattga gaangngaca goatgotggo
agtecteaga gecetegett geteteggna ectecetgee tgggetecea etttggtgge
                                                                       720
                                                                       741
atttgaggag cccttcagcc t
```



<210> 376

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```
<211> 191
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(191)
      <223> n = A, T, C or G
      <400> 376
actgccaggg gacagtgctg tgtcagttga acctgagctg ctgtgggaag ttgttgattc
                                                                      60
ctgactggag cctgaggtgg tggtgctggc aggtaacagt gttgtatccg ttgagcctgg
                                                                     120
                                                                     180
gctgctgtgg gaagttgtag aatgccgact gaggcctgcc gtggtggtgc tgntagggaa
                                                                     191
tgctgctagc g
      <210> 377
      <211> 476
      <212> DNA
      <213> Homo sapien
      <400> 377
ccgccagtgt gctggaattc gcccttggcc gcccgggcag gtacatttcc ttgtagactc
                                                                      60
tgttaatttc ctgcagctcc tggttggttc tggagcagat gatctcaatg agagagtcct
                                                                     120
cgtcggttcc cagccccttc atggaagctt ttagctcaga agcgtcatac tgagcaggtg
                                                                     180
tetteaatag geceaaaate acceteteea getegecaga taaggetege tteagteete
                                                                     240
atgcaagttc ctttttggtc cttctctggt aggcgaaggc aatatcctgt ctctgtgcat
                                                                     300
tgctgcggtt ggtcaaaatg ttgacaatgg tgacctcatc cacacctttg gtcttgatgg
                                                                     360
ctgtttcaat gttcaaagca tcccgctcag catcaaagtt agtataggct ttgacagacc
                                                                     420
                                                                     476
catatgcact tgggggtgta gagtgatcac cctccaagcc gagcttgcac aggatt
      <210> 378
      <211> 455
      <212> DNA
      <213> Homo sapien
     <220>
     <221> misc feature
      <222> (1)...(455)
      <223> n = A, T, C or G
     <400> 378
                                                                      60
agtgtgctgg aattcgccct tggccgcccg ggcaggtaca catcccatct tcaaatttaa
                                                                     120
aatcatattg tcagttgtcc aaagcagctt gaatttaaag tttgtgctat aaaattgtgc
                                                                     180
aaatatgtta aggattgaga cccaccaatg cactactgta atatttcgct tcctaaattt
cttccaccta cagataatag acaacaagtc tgagaaacta aggctaacca aacttagata
                                                                     240
300
agaaacaaat ttcaaaataa atcacatctt ctcttaaaac ttggcaaacc cttccctaac
                                                                     360
                                                                     420
tgtccaagtn tgagcataca ctgccactgg ctttagatac tccaattaaa tgcactactc
                                                                     455
tttcactggt ctgaatgaag tatggtgaaa caagc
      <210> 379
      <211> 297
      <212> DNA
      <213> Homo sapien
```

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<220>
      <221> misc feature
      <222> (1)...(297)
      <223> n = A, T, C or G
      <400> 379
ageteggate cetagnaegg cegecagtgt getggaatte gecettageg geggeeeggg
                                                                         60
caggtacaaa gaatccttag acgccatact gagttttaag ttccttaatt cctaatttaa
                                                                        120
                                                                        180
ggettetagt gaageeteet cacagtagge tteactagge ceacagtgee ectagacete
tgacaatccc accctagaca gactttattg caaaatgcgc ctgaagaggc agatgattcc
                                                                        240
caagagaact caccaaatca agacaaatgt cctagatctc tagtgtggna gaactat
                                                                        297
      <210> 380
      <211> 144
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(144)
      <223> n = A, T, C or G
      <400> 380
actttgctga aaattctttt tcccagggtc tataaaacat taatttgttt ttatatttta
                                                                         60
                                                                        120
ctattttttt gngttttttt gtttttaaat caataagtaa tctaggacta gcattatgtt
                                                                        144
tgctagacct ggcatttgct cggc
      <210> 381
      <211> 424
      <212> DNA
      <213> Homo sapien
      <400> 381
                                                                         60
actottgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg
aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt
                                                                        120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc
                                                                        180
                                                                        240
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc
                                                                        300
acagettaca geaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg
                                                                        360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg
                                                                        420
                                                                        424
aaaa
      <210> 382
      <211> 408
      <212> DNA
      <213> Homo sapien
      <400> 382
                                                                         60
actettqaat acaaqtttet qataccaetq caetqtetqa gaatttecaa aactttaatq
aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt
                                                                        120
                                                                        180
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc
tgattcttta aatgtcttgt ttcccagatt tcaggaaact tttttcttt taagctatcc
                                                                        240
                                                                        300
acagettaca geaatttgat aaaatataet tttgtgaaca aaaattgaga catttacatt
```

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ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg
                                                                        360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtatgac
                                                                        408
      <210> 383
      <211> 455
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(455)
      <223> n = A, T, C or G
      <400> 383
actettgaat acaagtttet gataceactg cactgtetga gaatttecaa aactttaatg
                                                                         60
aactaactgn cnncttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt
                                                                        120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt qaaattttqc
                                                                       180
tganncttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc
                                                                        240
acagcttata gcaatttgat aaaatatact tttgtgaaca aaaattgaga catttacatt
                                                                        300
ttctccctat gtggtcgctc cagacttggn aaactattca tgaatattta tattgtatgg
                                                                        360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg
                                                                        420
aaaacattgg ttatattacc aagactttga ctaga
                                                                        455
      <210> 384
      <211> 376
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(376)
      <223> n = A, T, C or G
      <400> 384
actettgaat acaaggttet gatateactg cactgtetga gaatttecaa aactttaatg
                                                                         60
aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt
                                                                       120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc
                                                                       180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact tttttttctt ttaagctatc
                                                                       240
cacagcttac agcaatttga taaaatatac ttttgngaac aaaaattgag acatttacat
                                                                       300
tttctcccta tgtgggcgct ccagacttgg gaaactattc atgaatattt atattgnatg
                                                                       360
ggaatatagc attgcc
                                                                       376
      <210> 385
      <211> 422
      <212> DNA
      <213> Homo sapien
      <400> 385
acctgtgggt ttattaccta tgggtttata tcctcaaata cgacattcta gtcaaagtct
                                                                        60
tggtaatata accaatgttt tcaaatgtat tctgtcatac aaagagcaga tttttattga
                                                                       120
acttgtgcaa taactatatt accatacaat ataaatattc atgaatagtt tcccaagtct
                                                                       180
ggagcgacca catagggaga aaatgtaaat qtctcaattt ttqttcacaa aagtatattt
                                                                       240
tatcaaattg ctgtaagctg tggatagctt aaaagaaaaa aagtttcctg aaatctggga
                                                                       300
aacaagacat ttaaagaatc agcaaaattt caaataaaaa attatgaaaa tattatcctc
                                                                       360
```

attagttcat ttagtcccat gaaattaatt attttctctg cttgatcttg gtggacagtt tc	420 422
<210> 386 <211> 313 <212> DNA <213> Homo sapien	
<400> 386 caagtaggtc tacaagacgc tacttcccct atcatagaag agcttatcac ctttcatgat cacgccctca taatcatttt ccttatctgc ttcctagtcc tgtatgccct tttcctaaca ctcacaacaa aactaactaa tactaacatc tcagacgctc aggaaataga aaccgtctga actatcctgc ccgccatcat cctagtcctc atcgccctcc catccctacg catcctttac ataacagacg aggtcaacga tccctccctt accatcaaat caattggcca ccaatggtac tgaacctacg agt	60 120 180 240 300 313
<210> 387 <211> 236 <212> DNA <213> Homo sapien	
<pre><400> 387 cgccctcata atcattttcc ttatctgctt cctagtcctg tatgcccttt tcctaacact cacaacaaaa ctaactaata ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag gtcaacgatc cctcccttac catcaaatca attggccacc aatggt</pre>	60 120 180 236
<210> 388 <211> 195 <212> DNA <213> Homo sapien	
<pre><400> 388 acgccctttt cctaacactc acaacaaaac taactaatac taacatctca gacgctcagg aaatagaaac cgtctgaact atcctgcccg ccatcatcct agtcctcatc gccctcccat ccctacgcat cctttacata acagacgagg tcaacgatcc ctcccttacc atcaaatcaa</pre>	60 120 180 195
<210> 389 <211> 183 <212> DNA <213> Homo sapien	
<220> <221> misc_feature <222> (1)(183) <223> n = A,T,C or G	
<pre><400> 389 taacactcac aacaaaacta actaatacta nnatctcaga cgctcaggaa atagaaaccn cctgaactat cctgcccgcc atcatcctag tcctcatcgc cctcccatcc ctacncatcc tttacataac agacgaggtc aacgatccct cccttaccat caaatcaatt ggccaccaat ggt</pre>	60 120 180 183

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<210> 390
      <211> 473
      <212> DNA
      <213> Homo sapien
      <400> 390
                                                                        60
acaaagcagc aactgcaata ctcaaggtta aaacattaga aaagcatttg tgtgacaggt
                                                                       120
atattacagt attatcaaaa tattacattt tcagacttac ttagcagata atcatccacc
agagettaaa tetttaaatt attteeatag tettaaaaaa tatgtaatgt eagaatgeat
                                                                       180
ataaaaagaa tgtaaaagga aacctaaaat acaaatggaa taatgtaaca aataaatatt
                                                                       240
                                                                       300
tgatttcagt aactgttaat aatcagctca acaccaccat tctctctaaa ctcaatttaa
ttcttatagg aataatgaac tgtcaaatgc catggcataa ttatttattt ccaagctatc
                                                                       360
                                                                       420
atcaatgatt agaactaaaa aaaatttggc ataaaaaaat cacaattcag cataaataaa
                                                                       473
gctattttta gcttcaacac tagctagcat ctctaagaat tgttgaaata agt
      <210> 391
      <211> 216
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(216)
      <223> n = A, T, C or G
      <400> 391
atttgtattt taggtttcct tttacattct ttttatatgc nntctgacat tacatatttt
                                                                        60
ttaagactat ggaaataatt taaagattta agctctggtg gatgattatc tgctaagtaa
                                                                       120
gtctgaaaat gtaatatttt gataatactg taatatacct gtcacacaaa tgcttttcta
                                                                       180
atgttttaac cttgagtatt gcagttgctg ctttgt
                                                                       216
      <210> 392
      <211> 98
      <212> DNA
      <213> Homo sapien
      <400> 392
acttatttca acaattctta qaqatqctaq ctaqtqttqa aqctaaaaat aqctttattt
                                                                        60
atgctgaatt gtgatttttt tatgccaaat ttttttaa
                                                                        98
      <210> 393
      <211> 397
      <212> DNA
      <213> Homo sapien
      <400> 393
tgccgatata ctctagatga agttttacat tgttgagcta ttgctgttct cttgggaact
                                                                        60
                                                                       120
gaactcactt tcctcctgag gctttggatt tgacattgca tttgaccttt tatgtagtaa
ttgacatgtg ccagggcaat gatgaatgag aatctacccc cagatccaag catcctgagc
                                                                       180
aactettgat tatecatatt gagteaaatg gtaggeattt cetateacet gttteeatte
                                                                       240
                                                                       300
aacaaqaqca ctacattcat ttaqctaaac qqattccaaa qaqtaqaatt qcattqaccq
cqactaattt caaaatgctt tttattatta ttatttttta qacagtctca ctttqtcgcc
                                                                       360
                                                                       397
caggccggag tgcagtggtg cgatctcaga tcagtgt
```

<211> 351

```
<210> 394
      <211> 373
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(373)
      <223> n = A, T, C or G
      <400> 394
ttacattqtt qaqctattqc tqttctcttq qqaactqaac tcactttcct cctqaqqctt
                                                                        60
tggatttgac attgcatttg accttttatg tagtaattga catgtgccag ggcaatgatg
                                                                        120
aatgagaatc tacccccaga tccaagcatc ctgagcaact cttgattatc catattgagt
                                                                        180
caaatggtag gcatttccta tcacctgttt ccattcaaca agagcactac attcatttag
                                                                       240
ctaaacggat tccaaagagt agaattgcat tgaccacgac tantttcaaa atgcttttta
                                                                        300
ttattattat tttttagaca gtctcacttt gtcgcccagg ccggagtgca gtggtgcgat
                                                                        360
                                                                       373
ctcagatcag tgt
      <210> 395
      <211> 411
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(411)
      <223> n = A, T, C or G
      <400> 395
actgatcatt ctatttcccc ctctattgat ccccacctcc aaatatctca tcaacaaccg
                                                                        60
actaatcacc acccaacaat gactaatcaa actaacctca aaacaaatga taaccataca
                                                                       120
                                                                       180
caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac
aactaacctc ctcggactcc tgcctcactc atttacacca accacccaat tatctataaa
                                                                       240
cctagccatg gccatcccct tatgagcggg cgcagtgatt ataggctttc gctctaagat
                                                                       300
taaaaatgcc ctagcccact tcttacngca aggcacacct acacccctta tccccatact
                                                                       360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t
                                                                        411
      <210> 396
      <211> 411
      <212> DNA
      <213> Homo sapien
      <400> 396
actgatcatt ctatttcccc ctctattgat ccccacctcc aaatatctca tcaacaaccg
                                                                        60
actaattacc acccaacaat gactaatcaa actaacctca aaacaaatga tagccataca
                                                                        120
caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac
                                                                       180
                                                                       240
aactaacctc ctcggactcc tgcctcactc atttacacca accacccaac tatctataaa
                                                                       300
cctagccatg qccatcccct tatgagcggg cgcagtgatt ataggctttc gctctaagat
taaaaatqcc ctaqcccact tcttaccaca aqqcacacct acacccctta tccccatact
                                                                       360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t
                                                                       411
      <210> 397
```

```
<212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(351)
      <223> n = A, T, C or G
      <400> 397
ngccgangta caaaaaaaag cacattccta gaaaaaggta ttggcaaata gtaaaaatgg
                                                                         60
gaggtcaaaa ncaaaaaaaa aaaaaacaaa acnaaaaaaa gaaaaaacca acaattcttc
                                                                       120
aattcagtgt gcaaacatta tataaaaata gaaatactaa ctctacaggc aqtatttcct
                                                                       180
gataaattat ttaaatagca tatctacnca atctgagata tctattccaa tggcaatgag
                                                                       240
aaaataattt ataaaaataa agcaatggta taccanatga tagaaaaaaa cataactttc
                                                                       300
agaaattgta tttaacattt caatgctatt tccttattgn gaatncttct c
                                                                       351
      <210> 398
      <211> 363
      <212> DNA
      <213> Homo sapien
      <400> 398
acaaaaaaa gcacattcct agaaaaaggt attggcaaat agtaaaaatg ggaggtcaaa
                                                                         60
agcaaaaaaa aaaaaaacaa aacaaaaaaa agaaaaaacc aacaattctt caattcagtg
                                                                       120
tgcaaacatt atataaaaat agaaatacta actctacagg cagtatttcc tgataaatta
                                                                       180
tttaaatagc atatctacac aatctgagat atctattcca atggcaatga gaaaataatt
                                                                       240
tataaaaata aagcaatggt ataccagatg atagaaaaaa acataacttt cagaaattgt
                                                                       300
atttaacatt tcaatgctat ttccttattg ggaatacttc tctgcagagt ttttatgcta
                                                                       360
tqt
                                                                       363
      <210> 399
      <211> 360
      <212> DNA
      <213> Homo sapien
      <400> 399
actgtttcct cgtggttcag gggtgtgcat gaaggctctt aggagagcaa acacctgttc
                                                                         60
ctattctgta tgtccctccc tcatttcaaa tgagagtaac caattgagta aaataaccaa
                                                                       120
ataaccattg ccccaccatg aacatggggc ttgggaagac agtcctacaa tcttcatcat
                                                                       180
atatttaggt ttttaggcca gccagctctt tttttccaaa gctttctttt qaatacccqc
                                                                       240
ccgggcggcc cctaagggcg aattctgcag atatccatca cactggcggc cgctcgagca
                                                                       300
tgcatctaga gggcccaatt cgccctatag tgagtcgtat tacaattcac tggccgtcgt
                                                                       360
      <210> 400
      <211> 87
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(87)
      <223> n = A, T, C or G
      <400> 400
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```
ctgcacatat cnattacact ggcggccgct cgagcatgca tgnagagggc ccaattctcc
                                                                      60
ctatattgag tggaattaca atnonct
                                                                      87
      <210> 401
      <211> 328
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(328)
      <223> n = A, T, C \text{ or } G
      <400> 401
acccagggac acaaacactc tgcctaggaa aaccagagac ctttgttcac ttgtttatct
                                                                      60
gctgaccttc cttccactat tgtcctatga ccctgccaaa tccccctctg cgagaaacac
                                                                     120
180
ccacaaaaaa aaaaaaaaag aaagtntata aaataaaata ttgaagtcct ttcccattaa
                                                                     240
aaaaaaaaaa aagaaaaagc acggactctt tcatccagtt ctgatgtgat tatctctgga
                                                                     300
aggcattttc tcctcctctt ccctcccc
                                                                     328
      <210> 402
      <211> 268
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(268)
      <223> n = A, T, C or G
      <400> 402
nacataatga caacatcttc actagactga gtgttcaagg atttgagatg attcgctatt
                                                                      60
catcacaccc cgaagattga gatccactgt atttacacaa agcaaagcca tqtcagcaag
                                                                     120
ggactgtcaa cctgattctg agaacataaa cattcaaaat ttattttcca qtqttccttt
                                                                     180
ttggaaacca acaacacatc tttaatacct acacacaca acatctntac ctttaaaaaa
                                                                     240
aaaaaaaag tgnaacttca cagatagt
                                                                     268
      <210> 403
      <211> 538
      <212> DNA
      <213> Homo sapien
      <400> 403
acagtgatag ctcccctgg gcaatacaat acaagaacag tgggttttgt caaattggaa
                                                                      60
caaggaaaca gaaccacaga aataaataca ttggttaaca tcagattagt tcaggttact
                                                                     120
tttttgtaaa agttaaagta gaggggactt ctgtattatg ctaactcaag tagactggaa
                                                                     180
tctcctgtgt tcttttttt tttaaattgg ttttaatttt ttttaattgg atctatcttc
                                                                     240
ttccttaaca tttcagttgg agtatgtagc atttagcacc actggctcaa tgcgctcacc
                                                                     300
taggtgagag tgtgaccaaa tcttaaagca ttagtgctat tatcagttac caccatttgg
                                                                     360
ggcttttatc cttcatgggt tatgatgttc tcctgatgac acatttctct qagttttgta
                                                                     420
attccagcca aagagagacc attcactatt tgatggctgg ctgcatgcag acatttaaag
                                                                     480
cttttagaga atacactaca ccagggagta tgactactag tatgactatt aggagggt
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ttatatcgat agactatgaa tgctatttct agaaaaagtc tagtgccaaa tttgtcttat
                                                                        240
taaataaaaa caatgtagga gcagcttttc ttctagtttg atgtcattta agaattacta
                                                                        300
acacagtggc agtgttaaat gaagatgctg tctacaaggt agataatata ctgtttgata
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ctcaaaacat ttttcatttt gtttaaagta gaagttacat aattctatat tttaagtct
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agggctttca gatgccttat tccagtgtga acagaaaaag ttcatatttt atgtggttaa
                                                                        120
tgctttgatg tgtcacataa agagtagttt gtagaaaatg ttggcacaat tttaacttct
                                                                        180
                                                                        240
tagtggcttg tgacattata tattatatat atatgtatat atatctttat aacattcctg
tgtttagtag tgtaaatgtt ctgggcaagt tttaatattt tgaatgcctt tggatattcc
                                                                        300
agcaataaag gcatcatgtt ctgcaatagg atttcttact catttaccta ttttaacact
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aaaatagacc acaactgagc acaaattcct tttataaatg ttatagaagc agggaagaat
                                                                        420
                                                                        480
aataaacaca tttgtgaatt gtggttcagt ttatttatct ttagggaagg ctgatcattt
atcttatagc acataacccc agcctcttat tcattatggn taa
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ggccacaaaa gggctctqtq qtttqcctcc atqtqcactq qcccctcccc acccctaqqq
                                                                        120
                                                                        180
ggcactcagt agctgctgag aaggcctgtc cacgangctg ttggaacccc ttcaataaat
acttagaagn a
                                                                        191
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      <212> DNA
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      <221> misc feature
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gctgagtgtt catttgcggc atccctctgt tgggtcttgg gggccctcca cgacctcgtg
                                                                       120
gggctccccg tggtccactc tgcccagagc ctcgcttgaa attctgctga tatccatccc
                                                                       180
                                                                       240
gttgatagcc agagtaatcc cggggagcac tgaactgaga ctgtgtataa ccactgtttg
qaqtqttaga qaatqaaqqq cqqtaaccat catatcctcc tctqaatcca ttqqcaqqqc
                                                                       300
cccggtatcc attcatcaag cctctagcac cacgggagcc tccacgagac acaccacgac
                                                                       360
tattgtaata gggctgattg ctacgtggaa atccagtgnt ctg
                                                                       403
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      <211> 384
      <212> DNA
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                                                                        60
ttacqqttca cccatattqc atqtatcaqq aatataatcc tttttattat tqaqtaqtqt
                                                                       120
tctattgtat gtatatacca cagtttattt ctcccttcat cctttgctag attttggggt
                                                                       180
tttttcacat tgcgctattc aagtataaac ctgctctcaa cattcatgtg caagtctttg
                                                                       240
agtggacata tatttgccgt ttctcttgag tgaatgcacc ttgttgggtc acgtggctta
                                                                       300
atttaaaaaa attttaatca ctgtggtgca tatgtagtga ttattagtga ttatctcata
                                                                       360
                                                                       384
attttatttt cttgatgact aatg
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      <211> 315
      <212> DNA
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      <221> misc_feature
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ggaagactta nttgctgact tcaattatat cctggaactg gcaacttgtg cccttccttt
                                                                       120
                                                                       180
gcttcaaaaa aagtgtaaga aagagtgata agatcaactt taatcattct tggatcttca
gcaaattcag gatcaatgta gaaaaacact ggcatatcta cttcctcttg gggattaagc
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ctttgttctt caaaacagaa gcactgtatt ttattgaaat actgtccacc ttcaaatgga
                                                                       300
acaatattgt atgna
                                                                       315
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      <211> 554
      <212> DNA
      <213> Homo sapien
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      <221> misc feature
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                                                                       120
taatetteaa attatatagt tatgeattga gtteeetatg cateteacee ateteettta
                                                                       180
tctcagcctt ctcatacttt gccattctct tctttctgga aataaccagc acaacaattc
                                                                       240
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cagcaacaac tgctatcacc acaaccacaa taacagcaat aacaccagct tttagaccct
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gcattgagaa ttcaggtgct ttttcatcaa cataataaat taaagtttga ccaggatcca
                                                                        360
gatccagttg ttccccattt actgtcaggt gccattttct tagaatgaaa caaggattca
                                                                        420
cctttaacat ctttttcaaa ataataagcc acatcagcta tgtccacatc attctgagnt
                                                                        480
ttttgagaag aattttgaac cagatcaata gtgataacat tattctcata caaaatactc
                                                                        540
                                                                       554
gngataaatt ntgg
      <210> 414
      <211> 267
      <212> DNA
      <213> Homo sapien
      <400> 414
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                                                                       120
caatgtttcc caactggtat atgtcaggct ttcccaatag cttaactgtg accctatacg
                                                                       180
gatggctttt tagatagttc tatactgctg tattgtgtta gcacttttct ttgtcattaa
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caacacactt taaatgacat ttggtga
                                                                       267
      <210> 415
      <211> 454
      <212> DNA
      <213> Homo sapien
      <400> 415
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atggtcaagg ccatggaaaa agcagaaatt taccaagaaa gctgataccc atgtatagtt
                                                                       120
cccactcatc tcaaatacat ctgctatctt tttaagctaa gtcctagaca tatcggggat
                                                                       180
aacatggggg ttgattagtg accacagtta tcagaagcag agaaatgtaa ttccatattt
                                                                       240
tatttgaaac ttattccata ttttaattgg atattgagtg attgggttat caaacaccca
                                                                       300
caaactttaa ttttgttaaa tttatatggc tttgaaatag aagtataagt tgctaccatt
                                                                       360
ttttgataac attgaaagat agtattttac catctttaat catcttggaa aatacaagtc
                                                                       420
ctgtgaacaa ccactctttc acctagcagt atga
                                                                       454
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      <211> 370
      <212> DNA
      <213> Homo sapien
      <400> 416
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aaaagaccga taccggggtg tcgctccaga cctatgatga cttgttagcc aaagactgcc
                                                                       120
actgcatatg agcagtcctg gtccttccac tgtgcacctg cgcggaggac gcgacctcag
                                                                       180
ttgtcctgcc ctgtggaatg ggctcaaggt tcctgagaca cccgattcct gcccaaacag
                                                                       240
ctgtatttat ataagtctgt tatttattat taatttattg gggtgacctt cttggggact
                                                                       300
cgggggctgg tctgatggaa ctgtgtattt atttaaaact ctggtgataa aaataaagct
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gtctgaactg
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      <400> 417
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                                                                     180
gattttgtct tttatggatg tgctttcggg gcaaagtcca agaacttgtc acctagccca
agatectgaa gatttttete etgtggettt ttteaaagtt atetagtttt atgtateaca
                                                                     240
                                                                     300
tttaagtccg ttatacattt tgagttaaat tttatataag atgtgaggtt taagtagagg
                                                                     360
ttcttttttc tcctcgccat gggtgtctaa ttgctctagc ataatttgtc agaaaggcta
                                                                     420
ttcttcctcc attgaattgc tttttcactt tttcaaaatc agctgagcat atttatatgg
gtttatttct gggttctctc atctgttcca ttgacgtatq tqt
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     <213> Homo sapien
      <400> 418
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                                                                     120
180
ttttaaatca cattaatttt accaagtgaa accaagccat actgtttttg agccaattaa
                                                                     240
gaaaattgcc atttttaaag tgtagcattt cagggtaaag acccatgaaa tggcttgatg
                                                                     300
tattctagac tactgaaaga aaaccacttc aaagattttg ttgaaagttt tagtgttgtc
tgaaatgcaa gagggaaggt gattggtagt gagt
                                                                     334
     <210> 419
     <211> 297
     <212> DNA
      <213> Homo sapien
     <400> 419
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cttgctcctg cttacgaagt attcccaatc actggtcatc tgaccctact tgaacactcc
                                                                     120
tgaacagtca tgttttttaa aatcttcctt tatatcaagt cagagagtat acttctataa
                                                                     180
                                                                     240
atttcactca tggatgttag gaaatctagt catcttccct gtgattgccc tgttaagtat
                                                                     297
ttaaccatag ctatcatgtg tttcccaaat cttctctaga ttaaatatct tcagtta
     <210> 420
     <211> 418
      <212> DNA
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     <400> 420
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                                                                     120
ccatcatagg aggetteatt cactgattte cectattete aggetacace etagaceaaa
cctacgccaa aatccatttc gctatcatat tcatcggcgt aaatctaact ttcttcccac
                                                                     180
                                                                     240
aacactttct cggcctatcc ggaatgcccc gacgttactc ggactacccc gatacataca
ccacatgaaa tatcctatca tctgtaggct cattcatttc tctaacagca gtaatattaa
                                                                     300
                                                                     360
taattttcat gatttgagaa gccttcgctt cgaagcgaaa agtcctaata gtagaagaac
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cctccataaa cctggagtga ctatatggat gcccccacc ctaccacaca ttcgaaga
      <210> 421
      <211> 304
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     <400> 421
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                                                                        120
cgaaattatt ggagtcaaga gccaggaagc cagccagacc ctcctggact ctgtttatag
                                                                       180
ccatcttcct gacctgctgt agaacatagg gatactgcat tctggaaatt actcaattta
                                                                       240
                                                                        300
gtggcagggt ggttttttaa ttttcttctg tttctgattt ttgttgtttg gggtgtgtgt
                                                                        304
gtgt
      <210> 422
      <211> 578
      <212> DNA
      <213> Homo sapien
      <400> 422
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ggatcacact tgaaggggct ctcagacaaa gttgtattca tgcaactgat tccttttcca
                                                                       120
ttcgttttct tagtcactaa tgctttccaa tggtcatgag tgcttttaat aatatcaatg
                                                                       180
gcaaagtcct tatctttaaa ttctgcatta aacgcaaact cattttctgg ttttccatca
                                                                       240
                                                                       300
ggaaccttat accttctaaa ccagtccaca gtagcttcta agtagccagg tttcagccgt
ttgacatcat tgatatcatt ataattggct gcatcaggat catccacatt aatggcaatg
                                                                       360
actttccagt cggtttcccc ttcgtcaatc atagccaata tgcctagaac tttcaattat
                                                                       420
ttatttcacc tcttgcacat accttgcttc caatttcaca cacatcaatt gggtcattgt
                                                                       480
caccacaaca gccagtatgt ttatcattgt gccctgggtc ttcccaagtc tgagggatgg
                                                                       540
caccatagtt ccagatatat cctttatacg ggaacaaa
                                                                       578
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      <211> 327
      <212> DNA
      <213> Homo sapien
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      <221> misc feature
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ctgcaataga atcaaaattt gaaactgaaa tctttgttta aaagggttaa gttgaggcaa
                                                                       120
gaggaaagcc ctttctctct cttataaaaa ggcacaacct cattggggag ctaagctagg
                                                                       180
tcattgtcat ggtgaagaag agaagcatcg tttttatatt taggaaattt taaaagatga
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tggaaagcac atttagcttg gtctgaggca ggttctgttg gggcagtgtt aatggaaagg
                                                                       300
gctcactgnt gntactacta gaaaaat
                                                                       327
      <210> 424
      <211> 384
      <212> DNA
      <213> Homo sapien
      <400> 424
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                                                                        60
tataactata gtaaaaaatt aatatatatc ctattacata aatgttattt cttaggtgtt
                                                                       120
                                                                       180
ccattaagaa gagcaataga ataatgctaa aaaataatgc ctataaatct tcagagtata
aagacatcca ttcagaaaca aaaattagca ctaaattttt tataaaatag accagatgac
                                                                       240
aaaatttatt ttatttttaa acagtggttt tgacacaaat tatgttattg aaaagcatta
                                                                       300
ttaatgttta atttatttaa aattttggaa tttgccattt ctcagagaat gatcaggcct
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taggaaatta atacagtagt agta	384
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<210> 426 <211> 196 <212> DNA <213> Homo sapien	
<220> <221> misc_feature <222> (1)(196) <223> n = A,T,C or G	
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<210> 427 <211> 163 <212> DNA <213> Homo sapien	
<400> 427	
acagaagate catggaggea agtgetgtea ggaaggacae tgeeteeete cacceteeea aatgteaeea ecaagtteet teaggtgaga eeteaeaeaa tgteaagtge tttetaggaa ataetaagat eaggttgaga gattetgett ggtetagtea ate	60 120 163
<210> 428 <211> 315 <212> DNA <213> Homo sapien	
<220> <221> misc_feature <222> (1)(315) <223> n = A,T,C or G	
<400> 428	60
nactgagtan agatgctggg gaatgtgcaa tatgccttga agaattgcag cagggagata ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat gaatggtttg aagtaaatag atcttgccct gagcaccctt cagattaagc gtcagcttcc tgttttatag	60 120 180

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gttttcttgt cttgacaaga tgcttgaaaa accaagagga tatgaaaatc tgtctctgga
                                                                        240
gaaacaaaga cgcaggcata ctcagccaga aatctgagtt ttgtgagact tggtaataca
                                                                        300
gagatggaca atcgt
                                                                        315
      <210> 429
      <211> 131
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(131)
      <223> n = A, T, C or G
      <400> 429
acagttaggn actagaacat ttgttaagcc tcccaaagta gngtgcatgg aagattctag
                                                                         60
agtgtccagc tcttgcacta caaatgtaat aataacagaa taaatacact taccctgatg
                                                                        120
atattgaggg t
                                                                        131
      <210> 430
      <211> 503
      <212> DNA
      <213> Homo sapien
      <400> 430
actgattttt aataaaagaa ataaggttca aagtttagca caacaacaca gcaataagaa
                                                                         60
gctgacaact tggataaaaa tacaagaaag taacacagag cccaggctac ccattattta
                                                                        120
ctgtgtgcat acaggaatgc tatacttcag atgtataaat tagagactga ttttaagtta
                                                                        180
ttaatttaac tactttttgt ccactgtgct aaactaaatt ttatactaat gtgctactgc
                                                                        240
gtaaacactt caaagcaatc ttcattaaaa tgctgcaaag aaaaacaaga atacacatca
                                                                        300
tccaaaacta aggatgtcat tgcagttcac agtttgtata ataaataccc tccctttcaa
                                                                        360
tcactactaa gatcactaca tcctatctac tcatcagcac aaccttgaag caacttatac
                                                                        420
ttacaaatat tagcaatgca gccaaacatt tgttttttgc aaagcaacta gtaaaaatca
                                                                        480
agaattttaa ttaagacggt gca
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      <210> 431
      <211> 207
      <212> DNA
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      <400> 431
acaagtgtgg cctcatcaag ccctgcccag ccaactactt tgcgtttaaa atctgcagtg
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gggccgccaa cgtcgtgggc cctactatgt gctttgaaga ccgcatgatc atgagtcctg
                                                                        120
tgaaaaacaa tgtgggcaga ggcctaaaca tcgccctggt gaatggaacc acgggagctg
                                                                        180
tgctgggaca gaaggcattt gacatgt
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      <210> 432
      <211> 485
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(485)
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<223> n = A, T, C or G

(223) 11 11,170	01 0				
<pre><400> 432 aaaaaaagta atggaaaaat attttgtttt atctgctaaa aatttacttc tgaagagctg tttatggact gctgaattaa aaagtgaacg tggaaaaaag aattccaagc cacagagcct atatgacact tgggatatgc ctttttcca aaggnagnca catgt</pre>	acactaatat tcgagacttc ctacccgaaa ccttctttgc tgatattcct acaatgggaa	ctataaatat aataaaatat agtatcagtt aaaagtcctt ggattctgtt agggtaggat	gaactgacag aagcaagtta actttcaaag ttattagtcc ttaagtaacc atgtgaacaa	catcgttcta ctggatcata aacacaaaac tatcctctaa ttagttttaa aatttaattt	60 120 180 240 300 360 420 480 485
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tecteateaa teattacaet gtgtgtagga aageeatgee tecaegaega aattggtgee	acggctattg ccttgccatg	agtgcatgtc	gtgggatgag	gggctctagt	240 300 330
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tgtgctgccg tccacaagca atctcagtga caatgcttcc cataagttca aaaactttcc
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aagtaaacac tccaccttcc ttggttagag cagcagtatg atcttctcca caacaaatat
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aaactatttt ctgagatett agtgaettta gtaaattagg aacataeeta teatttteat
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cattaagacc tagctgacca aacttgttgc gtccccatcc aaagatagct ccagaaaggg
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taaactggca gcagggttag acattacttt caaagcttga ggtagaccga gtcagcatgc
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tagacaggct tctctctcta accaaaactg
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cagatatttt tgtttctcat cttaactatc caagccacct attttatttg ttctttcatc
                                                                        240
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cttggtgggt gagtccattc tgcccaagtg ggttttcaag caggagagtg cccactgtcc
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aaagcttttt agtgatcatt tattactttg tgtttactag atattaattc taaqatgaat
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tcctttagaa ttttagaaaa aattattcta gacaacaatc aaagtaaagg atacatccag
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cattgaaacc ataagccggc aagtctccag gttaaaaggt ttgtatcctc cagcaatgcc
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agcccctcca tactgcatct tgagttgaag tcttatangt agaagctggt gatccttaga
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cttactgcaa ttttcttatg tgttactagt ctacataccc catgttttct gtaatcatgc
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                                                                        180
cctttcctct cttttaaata attcttcatt gagttctaat atgtaaaaaa aaagtttact
                                                                       240
qtaaaqtttq caaataanqa aattttttt aaaagtcctc agtaatctta ccagtaacaa
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tacaqqtqqc ctcaqcttct aaacaccact acactqcttt atataaaaaa caaaaatcac
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ttatactaaa gtccaacttg tgtggattan t
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                                                                       180
                                                                       240
ctgaacctct tcttaaactc ttcattttcc atttttaagc tttgtgttac ttcagtaaga
cccttttgtt ctgcttgcag ttggtcacat ctttctttct catggttaag ttctctttcc
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attotocoaa ottgttotog aagttgtgot gtttottttt coagaacggo aattaacttt
                                                                       360
                                                                       420
aacagttett ettttettt catggtttte teaattttea aeteaagaag geetgetttt
                                                                       480
gtggtcacca ctaacatgtc agaatttcct tcatcttcca tagtaagcag ctcttcaact
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acagtggctc agcctacaga gttccctata ggggaaagaa ggcaggaaat aggcgcaggg
                                                                       180
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ggccatagge tgctcgccat tetgetttee tateetgttt etetecetgt getgeteeet
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attgcatgtc ccctggaagg aggtcctgct cacagcctca cttctaacct tctggaaccc
                                                                       240
acceaceact gecaagetea etattgaate caegeeatte aatgtegeag aggggaagga
                                                                       293
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actctaaaag aaaaagattc tgtaactctc ttttagcacc aaattattgt ttatcttgct
ggatatttta tatgaacagt gttaatttag atgcactaaa gcaaaggtag gcaaactaca
                                                                       240
                                                                       300
accatgagte aaacatggce acacceatte atttgctatt gtetaagetg gttttgcaet
acaactgcag agttgaatag atgcagcaga tcctttacag aaaaagtttt ctgacctcaa
                                                                       360
                                                                       420
ttctaaagta attgtagtag ggagctggag gactttcttt ccctttatgg taattttttg
                                                                       480
agctacaaaa agagccttgc agaaatgggt gaagggatta atcttttaaa aataaatgct
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minimum of the management of the profession of the parameters

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cacactgggc tgagtggggt acacgcaggt ctcaccagtc tccatgttgc agaagacttt 480
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acggcatttc actaaatcca ggggaaccac agcagtgtgt gtcagaccac aacttaagac 300
cccaccaaag ccacacagtg cataatactt cgcggagcca aattcacaac tgtactcttc 360
cacggcggcg gctgccaggt tgcgagggcg gcggggctgg cccgtgggcc ctggggagct 420
gctgcggagg tccccgagac catcgtgcac canctgcaga tgtggcgtgt tgaaggggtt 480
                                                            507
cgcccgcgcc aggtgcgcca cggacga
<210> 467
<211> 183
<212> DNA
<213> Homo sapiens
<400> 467
ceteatgage tacegggeea getetgtaet gaggeteace gtetttgtag gggeetacae 60
cttctgagga gcaggaggga gccacctcc ctgcagctac cctagctgag gagcctgttg 120
ccq
                                                            183
<210> 468
<211> 129
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> (1)...(129)
<223> n = A, T, C or G
<400> 468
geggeeget egaceggege egtegggene egggeeggge catggagetg tggaegtgte 60
tggccgcggc gctgctgttg ntgntgctgn tggtgcagtt gagccgcncn gccgagttct 120
acnccaang
<210> 469
<211> 243
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
```

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<222> (1)...(243)
<223> n = A, T, C or G
<400> 469
geggeeget egaenggeea tggagaetgt ggeaeagtag aetgtagtgt gaggetegeg 60
ggggcagtgg ccatggaggc cgtgctgaac gagctggtgt ctgtggagga cctgctgaag 120
tttgaaaaga aatttcagtc tgagaaggca gcaggctcgg tgtccaagag cacgcagttt 180
gagtacgcct ggtgcctggt gcggagcaag tacaatgatg acatccgtaa aggcatcgtg 240
ctg
                                                                   243
<210> 470
<211> 452
<212> DNA
<213> Homo sapiens
<400> 470
cctcaagtac gtccggcctg gtggtgggtt cgagcccaac ttcatgctct tcgagaagtg 60
cgaggtgaac ggtgcggggg cgcaccctct cttcgccttc ctgcgggagg ccctgccagc 120
teccagegae gaegecaeeg egettatgae egaeeecaag eteateaeet ggteteeggt 180
gtgtcgcaac gatgttgcct ggaactttga gaagttcctg gtgggccctg acggtgtgcc 240
cctacgcagg tacagccgcc gcttccagac cattgacatc gagcctgaca tcgaagccct 300
gctgtctcaa gggctcagct gtgcctaggg cgcccctcct accccggctg cttggcagtt 360
gcagtgctgc tgtctcgggg gggttttcat ctatgagggt gtttcctcta aacctacgag 420
ggaggaacac ctgatcttac agaaaatacc ac
                                                                   452
<210> 471
<211> 168
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)...(168)
<223> n = A, T, C or G
<400> 471
cttctccgct ccttctanga tctccgcctg gttcggnccg cctgcctcca ctcctgcctc 60
taccatgtcc atcagggtga cccagaagtc ctacaaggtg tccacctctg gcccccgggc 120
cttcagcagc cgctcctaca cgagtgggcc cggttcccgc atcagctc
                                                                   168
<210> 472
<211> 479
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)...(479)
<223> n = A, T, C or G
<400> 472
gccaggcgtc cctctgtctg cccactcagt ggcaacaccc gggagctggt ttgtcctttg 60
tggagcctca ncagttccct ctttcanaac tcactgccaa gagccctgaa caggagccac 120
catgcagtgc ttcagcttca ttaagaccat gatgatcctc ttcaatttgc tcatctttct 180
```

```
gngtggcgca gccctgttgg cagcgggcat ctgggtgnca atcgatgggg catcctttct 240
gaagatette gggecaetgt egtecaetge eatgeagttt gteaaegngg getaetteet 300
categoagee ggegttgtgg tntttgetet tggttteetg ggetgetatg gtgetaanae 360
tgagagcaag tgtgccctcg tgacgntctt cttcatcctc ctcctcntct tcattgctga 420
ggntgcagnt gctgaggtcc gccttggtgt acaccacaat ggctgagccc ttnctgacn 479
<210> 473
<211> 69
<212> DNA
<213> Homo sapiens
<400> 473
gagcgatgga gcgtgggtag ggagggtcca cagtgtccac tcgccgtgtg cgaaggttga 60
ctcggtagt
<210> 474
<211> 155
<212> DNA
<213> Homo sapiens
<400> 474
geogecactg cogggagage togatggget tetectgege geogeceggt gtetggeega 60
gtccagagag ccgcggcgcc tcgttccgag gagccatcgc cgaagcccga ggccgggtcc 120
cgggttgggg actgcagggg aaggcagcgg tggcg
                                                                   155
<210> 475
<211> 282
<212> DNA
<213> Homo sapiens
<400> 475
ggettegaeg ttggeeetgt etgetteetg taaacteeet ceateceaac etggeteeet 60
cccacccaac caactttccc cccaacccgg aaacagacaa gcaacccaaa ctgaaccccc 120
tcaaaagcca aaaaatggga gacaatttca catggacttt ggaaaatatt tttttccttt 180
gcattcatct ctcaaactta gtttttatct ttgaccaacc gaacatgacc aaaaaccaaa 240
agtgcattca accttaccaa aaaaaaaaaa aaagggcggc cg
<210> 476
<211> 434
<212> DNA
<213> Homo sapiens
<400> 476
ctccaggaca gcgtccagct tggtgtcgtt gaagacgaag tggagcggat ggttgtagaa 60
acgagtgatg gtgctgagcg gcgtgcagtc ttcgggatcc acgaaggcca agtccttgag 120
gtagagcatg tccacgatgt tggagcgctc ctcctcgtac accgggatgc gcgtgtggcc 180
getetgeatg atgetggeea ggaegeegaa gteeageaeg gtgetggegt ceageatgaa 240
geagtetteg aggggegtga geaegteete eaeggteegg eagegeagea egeeettget 300
gagategetg taggggtege egeegeegeg egeeagetee ageaeeeget eeegeageeg 360
eccgggeege geegeeaget ceageagetg ecceaeggge agegegaegg geagagtgag 420
caggacggcc aggc
<210> 477
<211> 314
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<212> DNA
<213> Homo sapiens
<400> 477
ggcgggcgct agctggctcc gggcagctcg gccttggggg cttcggggcc ccgagacgcg 60
gggcgtatga gtggggcgtg cgctccacgc ggaagtcgga gcctcctccc ctggataggg 120
tgtacgagat ccctggactg gagcccatca cctttgcggg gaagatgcac ttcgtgccct 180
ggctggcgcg gccgatcttt ccgccctggg accgcggcta caaggaccca aggttctacc 240
getegeeece tetteaegag cateegetgt acaaagacea ggeetgetat atettteaec 300
accepting cont
                                                                   314
<210> 478
<211> 317
<212> DNA
<213> Homo sapiens
<400> 478
aacagagtga tcattccagt taagcggggc gaagagaata cagactatgt gaacgcatcc 60
tttattgatg gctaccggca gaaggactcc tatatcgcca gccagggccc tcttctccac 120
acaattgagg acttctggcg aatgatctgg gagtggaaat cctgctctat cgtgatgcta 180
acagaactgg aggagagagg ccaggagaag tgtgcccagt actggccatc tgatggactg 240
gtgtcctatg gagatattac agtggaactg aagaaggagg aggaatgtga gagctacacc 300
gtccgagacc tcctggt
                                                                   317
<210> 479
<211> 171
<212> DNA
<213> Homo sapiens
<400> 479
aggtgctttg ctagatgctg tgacaggtat gccaccaaca ctgctcacag cctttctgag 60
gacaccagtg aaagaagcca cagetettet tggegtattt atacteactg agtettaact 120
tttcaccagg ggtgctcacc tctgccccta ttgggagagg tcataaaatg t
<210> 480
<211> 65
<212> DNA
<213> Homo sapiens
<400> 480
cccccagtgg aaggetecca ccctggtaga tgaacageee etggagaact acctggatat 60
ggagt
                                                                   65
<210> 481
<211> 207
<212> DNA
<213> Homo sapiens
<400> 481
cacagogtgc totgoggggt cactoccact ttgttagtga tgtggttatc toctcaqatq 60
gccagtttgc cctctcaggc tcctgggatg gaaccctgcg cctctgggat ctcacaacgg 120
gcaccaccac gaggcgattt gtgggccata ccaaggatgt gctgagtgtg gccttctcct 180
ctgacaaccg gcagattgtc tctggat
                                                                   207
```

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<210> 482
<211> 319
<212> DNA
<213> Homo sapiens
<220>
<221> misc feature
<222> (1)...(319)
<223> n = A, T, C or G
<400> 482
cacactgtgc ccttccagtt gctggcccgg tacaaaggcc tgaacctcac cgaggatacc 60
tacaagcccc ggatttacac ctcqcccacc tqqaqtqcct ttqtqacaqa cagttcctqq 120
agtgcacgga agtcacaact ggtctatcag tccagacggg ggcctttggt caaatattct 180
totgattact tocaagcooc ctotgactac agatactacc cotaccagtg cttocaaact 240
gcacaacacc cnagettnet ettecagnac aagagggtgt cetggteect ggeetacete 300
cccaccatcc agagctgct
                                                                   319
<210> 483
<211> 233
<212> DNA
<213> Homo sapiens
<220>
<221> misc_feature
<222> (1)...(279)
<223> n = A, T, C or G
<400> 483
acaggeceag tggegeetag cetteagetg etgggetete eegageetge ettageceat 60
acaaccactt gatcacgcgg gcattgcgct ccaccaccga cacqccatag ggaacqcgct 120
cccgggcccg ctcctcaaca gtcaccgagc tgcggcggga gcagccccct tcagagctgc 180
ccggcccagc actgggccct gccagggaca cnatatccga gctggcccgt gcc
<210> 484
<211> 194
<212> DNA
<213> Homo sapiens
<400> 484
agagcccttg ctgggggtg cctgggagat ggggtaagaa gagctttcat ttgtctggta 60
gatagatagc atgtaagggg gtggttgtcc caggaggcag ctgctgacag gtttgctaca 120
cacageceeg gaetgtgttg cetgggtget catteagaga ggggetatea tetgggagee 180
tgtgcccctg ggtc
<210> 485
<211> 67
<212> DNA
<213> Homo sapiens
<400> 485
tocatatoca ggtagttoto caggggotgt toatotacca gggtgggago otoccactgg 60
gggaagt
```

<212> DNA

```
<210> 486
<211> 70
<212> DNA
<213> Homo sapiens
<400> 486
taccgagtca accttcgcac acggcgagtg gacactgtgg accctcccta cccacgctcc 60
atcqctcaqt
       <210> 487
       <211> 257
       <212> DNA
       <213> Homo sapien
       <400> 487
 actoccgatt gaagccccca ttcgtataat aattacatca caagacgtct tgcactcatg
                                                                         60
 agctqtcccc acattagqct taaaaacaga tqcaattccc ggacqtctaa accaaaccac
                                                                        120
 tttcaccgct acacgaccgg gggtatacta cggtcaatgc tctgaaatct gtggagcaaa
                                                                        180
 ccacagtttc atgcccatcg tcctagaatt aattccccta aaaatctttg aaatagggcc
                                                                        240
 cqtatttacc ctataqt
                                                                        257
       <210> 488
       <211> 378
       <212> DNA
       <213> Homo sapien
      <400> 488
 actotyctat ggtgctggct tcctttaaac tcaggataga tgccaggtgg gctccgtttc
                                                                         60
 cgtaagactg acactegage teggeateag accagtteet cagetteetg aagtaaceat
                                                                        120
 agcaattgga cttgtggtaa aaccatccag gagcacagct gggtctcatg atgatatcac
                                                                        180
 ccaggactcc tgttttggcc aggcagctca gcaataggag cagccgcatg cttctggaag
                                                                        240
                                                                        300
 ccatcttcct cctaccctqa qqatqtaqct aqtqcaaqqa tctcaqaqac cttactagcq
 cttctttgaa actcctgggt tctccttgat ctgcaaatct gtytggcaac caagactcta
                                                                        360
 agggccctg ccttcttc
                                                                        378
       <210> 489
       <211> 429
       <212> DNA
       <213> Homo sapien
       <400> 489
 ccgaggtaca cagaagtttg aatcacaaaa cataattacc acaataaaac acagtgttca
                                                                         60
 agtatcttgg cagagcaatc tgccgcacaa actgcaaatt aaattaacta cacagactaa
                                                                        120
 aaactataca gcctaccatc aacagttgtg cattataaaa aggtagtttc tttccttttg
                                                                        180
 ttttaagtca ggaacaggta gatttttaaa aatatatata caagctaaca cacacrgcta
                                                                        240
 tcagcactaa tgccccccc tcaacttttc ctttttctta tagaaaatgg aaagcttaca
                                                                        300
 ataccteste srtymwrgmr scagreetwe gageewgeet grasagggtk wgemktggar
                                                                        360
magmtstgkc ctgaggttta gagccgcttt gtgcggggat ggtggaggct agggtggggg
                                                                        420
                                                                        429
 tgagaaaag
       <210> 490
       <211> 532
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<213> Homo sapien

<223> n = A, T, C or G

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<400> 490
ttggattgcc acacggctca cattgcatgc aagtttgctg agctgaagga aaagattgat
                                                                        60
cgccgttctg gtaaaaagct ggaagatggc cctaaattct tgaagtctgg tgatgctgcc
                                                                       120
                                                                       180
attgttgata tggttcctgg caagcccatg tgtgttgaga gcttctcaga ctatccacct
ttgggtcgct ttgmgktgtg atatgagaca gacagytgcg gtgggtgtca tcaaagcagt
                                                                       240
qgacaaqaaq gctgctggaq ccggcaaggt caccaagtct gcccagaaag ctcagaaggc
                                                                       300
                                                                       360
taaatgaata ttatccctaa tacctgccac cccactctta atcagtggtg gaagaacggt
ctcaqaactq tttqtttcaa ttqqccattt aaqtttaqta qtaaaaqact qqttaatqat
                                                                       420
                                                                       480
aacaatgcat cgtaaaacct tcagaaggaa aggagaatgt tttgtggacc actttggttt
                                                                       532
tcttttttgc gtgtggcagt tttaagttat tagtttttaa aatcagtacc tc
      <210> 491
      <211> 567
      <212> DNA
      <213> Homo sapien
      <400> 491
tcgaggtaca aaagcccttc aaaaggagtt cagcttttat aaacaccaaa acactctctg
                                                                        60
cctgtaaaat gtttttgctg aaatttgtat cattaactct caaatttaca tcttcatgtt
                                                                       120
tgagatacgc ttttaggact gtctatgcat gtagactttg gtcaactctc tcctcctcc
                                                                       180
                                                                       240
tcaataaatc agttaactta aaaaatatat tgtgaccatt tttataaaat acatgttcat
                                                                       300
aaaacagatc aacatattta gcttatacag aaataaaatt aagtcaatcc actcacaaag
aatttctatt ttgtaaaaat gtagcttgta tttcagtata ataaaatctg atgcaaaaaa
                                                                       360
cctgcccggg cggcaagtgt gctggaattc tgcakatatc catcacactg gcggscgctc
                                                                       420
                                                                       480
gagcatgcat ctagagggcc caattsgccc tatagcggcg cattaagcgc ggcgggkgtg
gtggwtacgc gcasygtgac cgmtacactt gccarcgccc tagmgcmcgc tcctttcgcw
                                                                       540
ttcttccctt cctytctcgc cacgttc
                                                                       567
      <210> 492
      <211> 422
      <212> DNA
      <213> Homo sapien
      <400> 492
agtgtgctgg aattcgccct tggccgcccg ggcaggtaca agactcaata atcacctgac
                                                                        60
tgagctccaa ttaactgagg agaaacgggg tggaggagag ggctggttgc tattcagact
                                                                       120
tgataatgag attgatctgt cccatggaga gtgaaagttc agttccactt ctgcctcctt
                                                                       180
                                                                       240
ctttccatgc tgtcctcatg ctctttatcc tcacttcctc agtcccttca acactcaaaa
                                                                       300
tetgatttta tttetetete acacgtatea ggggeagttt etgaagttge tgaagttgaa
                                                                       360
ttttcttcac aaacctctat aaaacatcag cagagaacat ataaatacat tttgattagc
atacattgca aaatttctcc cacaatgtca ggggatgaaa gcaggtggtc cccactgaga
                                                                       420
                                                                       422
gt
      <210> 493
      <211> 318
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(318)
```

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<400> 493
agtgtgctgg aattcgccct tagcggccgc cctggcaggt aagctttttt tttttttt
                                                                         60
tttttttgat gattaacatc tttaattcaa atgkaaaagt tcaatacaag ccatttatag
                                                                        120
ggcttgagat ttgttggtct tttaaaaaca araaatgggg aaatgcaaca aaatgacctt
                                                                        180
                                                                        240
tccacttttc aaaagctttc aagtaaagga tagatcatag ggccataaaa gatccattta
atsaaaccca cttttyaccc cctaccaatt gtcttacacc cantccacaa tcttaataca
                                                                        300
tattcctgaa natttaca
                                                                        318
      <210> 494
      <211> 360
      <212> DNA
      <213> Homo sapien
      <400> 494
accttttact acaacaagta aacatgcata ataaagtagg attcatccaa tgtctgacct
                                                                         60
ttetttgeat caaaagaaca ttteeggeea ggeaeggtgg eteaegeetg taateeeage
                                                                        120
actttgggag gccgagccag gtggatcacg aggtcaggag atcgagacca gcctggctaa
                                                                        180
catggtgaaa ccctgtctct actaaaaata caaaaatgag ccgggcatgg tggggggca
                                                                        240
                                                                        300
ccgtagtccc agctacttga gaggctgaga caggagaatg gcgtgaaccc ggggggcgga
gcttgtagtg agccgagatc gcgccactgc actccagcct gggtgacaga gtgagactcc
                                                                        360
      <210> 495
      <211> 329
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(329)
      <223> n = A, T, C or G
      <400> 495
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                                                                         60
ttgaaagaca gtccaagccc tggataatgc tttactttct gtgttgaagc actgttggtt
                                                                        120
gtttggttag tgactgatgt aaaacggttt tcttgtgggg aggttacaga ggctgacttc
                                                                        180
agagtggact tgtgtttttt ctttttaaag aggcaaggtt gggctggtgc tcacagctgt
                                                                        240
aatcccagca ctttgaggtt ggctgggant tcaagaccag cctggccaac atgtcagaac
                                                                       300
tactaaaaat aaagaaatca gccatgaaa
                                                                       329
      <210> 496
      <211> 292
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(292)
      <223> n = A, T, C or G
      <400> 496
acctgggatg aggtgggtgg agctttgaat ctaccactat ccaggccaca cacctagaag
                                                                         60
ctctggtttc attgtttcat tgatttcatt gttttgattg atgctgacct taggcagcag
                                                                       120
agttttcaat gctctccagg tgtttctaaa gtgcagacaa gtttangacc gtgcttgagg
                                                                       180
```

gtgaagggca ggactgtgat ggggaggggc aaat gttttccttg acctgaatgg gggtctcaca ggtg	
<pre><210> 497 <211> 549 <212> DNA <213> Homo sapien</pre>	rigear aracaracae gr 292
.400: 405	
<pre><400> 497 tcgaggtacc gaccatagag caagaatcaa gatt tcttccttc tgctagcctg gctaaatctg ctca ctaagagtga taagggccct actacactgg cttt cattggccca gtagtggctt ctagctctaa atgt tgcttcttcc ctcctcccct gtctctggct gtct agcctatgaa acagctgggt ctttggccat aaga aaactcagga gtaagcttct agccccttc agct tgcctgcacc ccaccccagc cactcaactc ctgc tttaccagta gaatccttgc taggttgatg tggg tgtacctgc</pre>	ttattt cagaggggaa gcctagcaaa 120 tttagg cttagagaca gaaactttag 180 ttgccc cgccatccct ttccacagta 240 cgagca gtctagaaga gtgcatctcc 300 agtaaa gatttgaaga cagaaggaag 360 tctaca cccttcggcc ctctctccat 420 ttgttt ttcctttggc catgggaagg 480
<210> 498 <211> 412 <212> DNA <213> Homo sapien	
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<210> 499 <211> 447 <212> DNA <213> Homo sapien	
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<211> 527 <212> DNA <213> Homo sapien	

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<400> 500
                                                                        60
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tcacttgacc ccatttatgt gtaggagcac tacaccattg gtttccaata ctgcacacat
                                                                       120
aagatacata cttgtgtgca gaaagtatct tcctccaggc ttgtaatacc cttcacatgg
                                                                       180
aagattaatg agggaaatct ttatattctg tataaaaaca aaagcaaatt tatatactaa
                                                                       240
aatcatttgt ctaaaaattt aagttgtttt caaataaaaa ttaaaatgca tttctgatat
                                                                       300
gcactgattg tgttgcctcc agcttttttt gctctctatg agtgactact taagtcactt
                                                                       360
gttgagaggg attatttact aattatatac ttctcattcc tgtaactcca ttccctttaa
                                                                       420
                                                                       480
acagtggtga tatcaaatat acttccatcc attgaatggg gtatttttaa caacaacaaa
                                                                       527
agtgatatac taaaaaatgt attgcttaag gcttattgaa tcatttt
      <210> 501
      <211> 304
      <212> DNA
      <213> Homo sapien
      <400> 501
                                                                        60
gaggttgccg accaaagaga ccattgagca ggagaagcgg agtgaaattt cctaagatcc
                                                                       120
tggaggattt cctacccccg tcctcttcga gaccccagtc gtgatgtgga ggaagagcca
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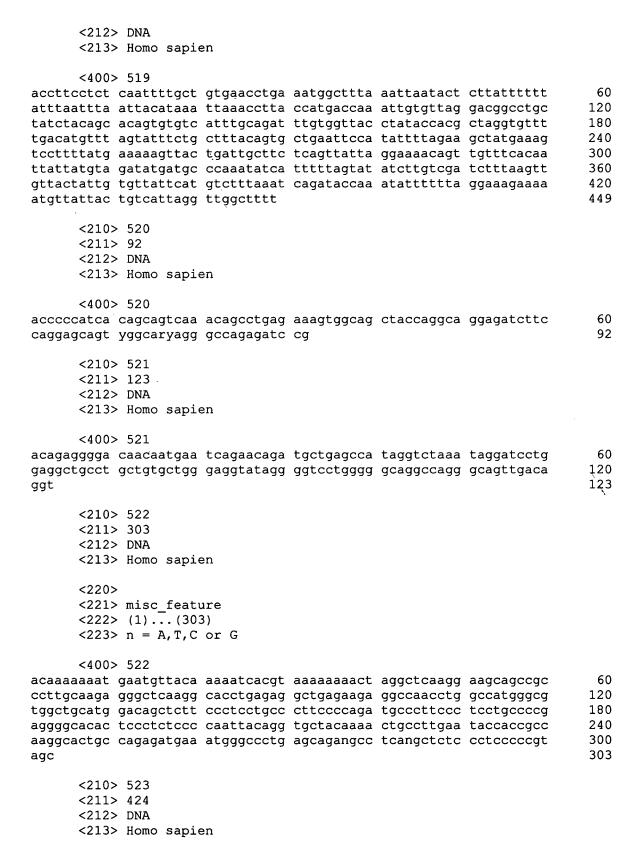
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cagcggagaa gtagcatcat caggaaatga gcttacattt ctcctcttca gcatctggtc
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atagagttca tttgaattga gttcataatc taaagtcact tttccccaca agatgttttc
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                                                                       240
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cataaaagca tgatcaggaa tccgaatgcc tacaagaggc gtaaaagggt ttaggtcctt
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gttgagetee teegagegtt ceateaceag ggteaetggt cetggeagta ggtettteag
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gagcccctca ggt
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gagattaggg gctttccctg gcttctgctg ataccaggcc aaccaattat taatattctq
                                                                       360
actggcccgg caagtgatgg tgactctgtc tcctacaqat gcaqacaqqq tqqaaqqaqa
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ttgggtcatc tggatgtcac atttggcacc tgggagccag agcaagcagg agccccagga
                                                                       480
gctgagcggg gaccctcatg tccatg
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      <211> 519
      <212> DNA
      <213> Homo sapien
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                                                                       120
ctgataaaca agtggatcaa actgaatatt tccaattaag aaagttcaca ataatacagt
                                                                       180
agtgtattat taccaatagg aaggcctaat agtcgactat tattttttaa qqcaaqaaaa
                                                                       240
aagaaaacaa gtgcaagcta tgccaagctt tggtgaatgc tgtccttggc attgcaagta
                                                                       300
taaagtttgt ttaaaaagaa aagggaaaaa ttaaactaat gcttcaacaa ccacagaata
                                                                       360
aggtttagga ctgcaaagaa agaggaaaaa aagaaacatt attcctctcc aattatactq
                                                                       420
ccaagcattc acaagtgagc tagggatcat aaggttaatt atacatttaa taaggtqtca
                                                                       480
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      <211> 431
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agagaggcag gattggggtc acagccgctt cttcagcatg gaccaagtgg gccttgggga
                                                                       180
ttgcagcgtt ctcgaagtgg ctgtaggact cgaatttaca gaaagccaca gaggtgcaac
                                                                       240
ttgaggetet getageaage caccagtgag getattgggt aaccacettt etatacagga
                                                                       300
gattggaatc tactttgtca tttatccacc acagtgacaa aggaaaagtg gtgccgttat
                                                                       360
gcaatccatt taactcataa acatattact ctgagtaact ggccagccat tcatcggatc
                                                                       420
cttcattggg t
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      <210> 542
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      <213> Homo sapien
      <400> 542
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                                                                       120
tttgtcttca gaaaataaat attttaaaaa tagacttgcc aatcaataca catacattga
                                                                       180
atagagggat tatataaaat tttatatacc aagatccaac ttgcctctct tcaagagtca
                                                                       240
                                                                       300
cttgagatct agtagtgaaa tcagcctgaa agtggcaagt ggaagaagac attttaggca
aacatcaacc aaacgagagc agaagagatc aaaattgtat tatacaaaat acatcgtaag
                                                                       360
tcaacaactc tcttatttta taaaatatac tttatgtcaa aattcacaag agaaaaaagg
                                                                       420
tcattaaaca ataataaaga tatcatttat tgaaaatgta tgacaaatat gtgcatacat
                                                                       480
atatttatat gtttgtgtct gt
                                                                       502
      <210> 543
      <211> 452
      <212> DNA
      <213> Homo sapien
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      <221> misc feature
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gttaaaaaga ctgatagaat aaataaaact acaaaaaaaa aaaaatcata caaacccatt
                                                                       180
ctgaaacccc aagaagtcct ggaatacaga aatgccctcc tccttcacta tttcacagga
agcactgcag gctatttgct taatattgtc ctgggattac attctaaaat tagtaactgg
                                                                       240
                                                                       300
ttacageteg gttgtagtge acaattaaaa teacactaae tteatetgaa gtgteattet
                                                                       360
acagttttat ttacacaacc agtgaagggc atgttctaga ataccagctt taatcctttt
caaacattaa tataagaagc caaattgtaa tgatacagca aantgaggcc actggtatta
                                                                       420
atacaggtag caaaggtcca catccaggtg gt
                                                                       452
      <210> 544
      <211> 472
      <212> DNA
      <213> Homo sapien
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tcatctactt attaaaacaa ataatttccc ttgggttgga ggggaggtga tttcataaat
                                                                       120
taattagaaa gccatcttta gcatattgct tatgtctgga tccatgtttc tgaggaaaaa
                                                                       180
gacattetea ggtgatgtat tttttteatg cattagtatg catttttaaa aaataatgea
                                                                       240
tgtttcttta ataattaatt ttcatcttct ataagatgcc atgtgaagaa gttgtggaaa
                                                                       300
tgtagaataa aaagctaaag ctgccaaatt tctgttgaac tcttaaaaaac agctcatgtt
                                                                       360
                                                                       420
tgtttgtcct ctcgggttgt ggcctagcct atttgcaatg taatgaagct gcagggttct
tgtatagcta aagcgttcaa tgcatttcac gtgctgtggt ggatgtgggt gc
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      <211> 281
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(281)
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<223> n = A, T, C or G

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aatgtaattt ggagcctatt tagtaatatg aattaaatgt cctatgtagt gctacaattn
                                                                     180
tygaattaga aagtgatcaa atgtmasaaa aaaattyaaa aattcagccc agaaaacaaa
                                                                     240
                                                                     281
atagggtatt aaattagttt aatgtaaaag gaattwataa g
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     <211> 423
     <212> DNA
     <213> Homo sapien
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tctaaaagga atgtcaacaa ttacaacgat catgcatacc atggtcgata atcacatttt
                                                                     120
agaagcattt tcaaccattt ctaaagaaat gcttataaca ttgttatata tagaactact
                                                                     180
ttcaataaac tqcaaaacat tqatcqactt ttccaqtatg agctacagtg tcaacacaaa
                                                                     240
agggaggcat aaatgtttaa tttatgaaat cagaatggaa tatttactgt aaagaaaaat
                                                                     300
taaaaagctt tcaaataaag gccattatcg aaccaacgtg aagagcacaa ctcgaacttt
                                                                     360
tgagttcatt catcttttaa agctgtcctc tcaataactt cagttctaag cactgaattc
                                                                     420
                                                                     423
agt
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     <212> DNA
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cgtaggtgtt gaatttacca aactttttct atttcaatta ttacattttt actttgttca
                                                                     120
agtaatattg tatcatatta aatgaacatt gcattgtgaa aataccctgc ttagtcatgg
                                                                     180
tatgtaatca tccttatacc tttttgtatt cttttttaa atatttctga gaatttctgt
                                                                     240
gtctaaattt aaataggatg ttgttttgta atcatcttgt gattcttttg tctcctttgg
                                                                     300
gtattattgg ccaatagatg aattaagaaa tgttacctct tctactgctt gaagtttttg
                                                                     360
                                                                     399
tgagaaattg atgtttttca ttaagtgttg atgaaatgt
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     <212> DNA
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aattgttctt atattctata gaagttcgct caaaatactc aacaggggaa taggcagcgg
acagtcagaa tggttggaat tttggctttc taagaaaaac tttattttgc ataagcatgt
                                                                     180
                                                                     240
ggtcagatca ttttgtgcat atgcagcctg gattggatgt taagtaaatg cttgttcagt
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gccggt
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     <211> 413
     <212> DNA
     <213> Homo sapien
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aatatacaca gaatgtattg ttagttcgat tccttcaaat tttatacata tttactttct
                                                                       120
gttaaagaga aaaggataaa atggtataaa aaaagataaa gctattaatt aagcacgaga
                                                                       180
                                                                       240
gagaagataa atggatattt tccctgtgtg aggctaagac agaagcaaat ctcgttaaga
                                                                       300
aaaatgccac ccacacaaca ggaaatttat ccaaaacaaa acaaaagcag ttatagaacc
ccttctctac catcagaagt aatttcacag caataaactt attggttaca acagacatac
                                                                       360
ttgaacagtt aaggatggga agaaaggctt aagatatcac caaattaaac cgt
                                                                       413
      <210> 550
      <211> 215
      <212> DNA
      <213> Homo sapien
      <400> 550
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                                                                       120
ttccataata tttaagtttt tcgatgttta gatatttttc ttcggtgaag cacaagtwtc
ttttcatggy ccctgakcaa ttttaaacag ttggaacacc ggtggcactg ataactgcty
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tctgggcagc ctctttagct tggggggctb gtagg
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      <211> 175
      <212> DNA
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      <221> misc feature
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cacaccggcc tcagcccgca ccggcagtas aagatggtga aagaaacaac ttactacgat
gttttggggg tyaaacccaa tgctactcat gaanaattga aaaaygctta tmmga
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      <210> 552
      <211> 298
      <212> DNA
      <213> Homo sapien
      <400> 552
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gtgggaatat tgctaaagaa aattctaata agagttatct ataattatag cttttattta
                                                                       120
                                                                       180
ttatatette atteaateat ttatteaeaa ttagtetaat tgeattettg atgaataaet
                                                                       240
gacttcagca aaggagtcaa tccactaagc aaagttcatt tatttttcat gatgttcttc
                                                                       298
tttcgatctt gagtctttac tctcctggat tcccaagaga actgcattag cctctagt
      <210> 553
      <211> 437
      <212> DNA
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164

tcgtctaaaa ttcactattt acagaga tagctctcat aatacaatat ccataat aaacagcgta tactgatatt ttctgac aagaggattc ctctatatat tttaaat ttgctccatg ttaaagcagt tatcacc cctaacagct tgtttttta atcccct ttgaaatatg cgtgggt	ggc tttagaagaa aaa ctcatttatc ttt aatttattct aat agaacctatg	tgtaaataaa taacatcatg atttcctgat agaaccagtg	taacattggt ctgagcaatc tcacaaactc cccatggaaa	120 180 240 300 360 420 437
<210> 554 <211> 575 <212> DNA <213> Homo sapien				
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<210> 555 <211> 226 <212> DNA <213> Homo sapien				
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<210> 556 <211> 298 <212> DNA <213> Homo sapien				
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<210> 557 <211> 166 <212> DNA <213> Homo sapien				
<400> 557				

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agtcacgaaa gtttcagaac acattgtgtt gattttgaaa ggtcatttgc atcttctatg
                                                                        120
atttcaactt tatctccatt taacttgctt gtaaagtatg tatgat
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      <211> 461
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(461)
      <223> n = A, T, C or G
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                                                                         60
tcaccactcg gacgaggtaa ctcqttaatc caqqqtaact cttaatqtta cccaqcqtqa
                                                                        120
actegeeggg etggeaacet ggaacaaaag teetgateea gtagteacae ttettttee
                                                                        180
taaacaggac ggaggtgaca ttgtagctct tgtcttcttt cagctcatag atggtggcat
                                                                        240
acatettttg egggtetttg tettetetga gaattgeatt eeetgeeagg eetaecaeat
                                                                        300
accacttece etggaattgg ttgteetgga agttetgetg cagagggace ttgeteagag
                                                                        360
gtggggctgg gatcaggtct gaggtggagt cctgggcctg ggcatgcaga gcccccaaca
                                                                        420
gggctaggcc cagccacagg agacctangg gcatgatttc a
                                                                        461
      <210> 559
      <211> 193
      <212> DNA
      <213> Homo sapien
      <400> 559
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                                                                         60
aaaagtgaaa cacttctaaa taaaaaatat acacctggcc tggcacccat tacatatata
                                                                        120
                                                                        180
cataatacat gttataaaca tatatacagt aaatgttttg gtagcaatac agaccatgca
                                                                        193
ttggtctttg tgt
      <210> 560
      <211> 125
      <212> DNA
      <213> Homo sapien
      <400> 560
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                                                                         60
cactaaaatc ctgattttaa cagaatagta gkaaaaatgc ctcagtgatt taagttgaaa
                                                                        120
gcagt
                                                                        125
      <210> 561
      <211> 325
      <212> DNA
      <213> Homo sapien
      <400> 561
ccgaggtacc acggcctcag agtcacagct ttgtgacatt agggggcaat ctccagcttt
                                                                         60
acgttttaga agacagtttg ttttttgatg tatattttta atatccccag attaaagaaa
                                                                        120
actcagggca agtaacacac taaaagggcc tttacaattt ttttcttgct gttattttga
                                                                        180
```

gatgcatctg ttgcaaaata tgtcaatgtt agaaatcaag ctccttcata tagggata tcatttgaaa tagatttctc tcaagaataa tccaattatt actttttagt gtttgcat attcactcca gaagtcatcc acagt	-
<210> 562 <211> 303 <212> DNA <213> Homo sapien	
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<210> 563 <211> 279 <212> DNA <213> Homo sapien	
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<210> 564 <211> 427 <212> DNA <213> Homo sapien	
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<210> 565 <211> 214 <212> DNA <213> Homo sapien	
<pre><400> 565 tcgaggtact gggtcttttc cagccaggcc tgcaacggtg accttaatcc cagctcgc catgacatct acagggatga ccgtctccat ttcctctgct cctttagcca ggatgacc agctcttttg gaagccattt ttatgttata tgtttacaag ccccacacca ggctgaaa gaacgcacgc cagcacgcac gcgcgccgtc cggc</pre>	ag 120

<211> 156 <212> DNA

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<210> 566
      <211> 382
      <212> DNA
      <213> Homo sapien
      <400> 566
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actggcatca tctactagaa caatttcttc tatcatgtgt cttggtgagc gattaatgac
                                                                       120
actatggaca gttcgcagaa gtgtgctcca agcctcattg tggaaaacaa tcaccacact
                                                                       180
tgttgtagga agattatctg gatacacctt tgttttacac ccttctaacc taacatctgg
                                                                       240
taaagatctg ttgagtgcaa tcatctcact tgccattaaa ttgaactgat tgattttaaa
                                                                       300
catctctttc atcttttctt gatcctcttt aggaatgacg actggtttcc ccatttctcc
                                                                       360
                                                                       382
aggaccttca tgaggctttt gt
      <210> 567
      <211> 271
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(271)
      <223> n = A, T, C or G
      <400> 567
cgaggtacaa ttacccacca ctggaggtga ctcagagagg acccccagag ggtgtctcca
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tettecetat, ttatttteag ceettgaggg etteattgta gateaaagee aaggeeecea
                                                                       120
ggaaggtgac atacteetgg aagtteacet cetggteett gtteeggnee aagtetteea
                                                                       180
teageettge aattteagea teetgeaget tegageeaat ggtgagetee ttetggatea
                                                                       240
                                                                       271
gctccttcag ctccttcttg ctcagggtgt g
      <210> 568
      <211> 340
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(340)
      <223> n = A, T, C or G
      <400> 568
                                                                        60
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tgccttaatg tgaagcttat ttataatagc aataaaccta actggatttg gatgaagaag
                                                                       120
tettaatact gacatactgg atttttaatg cactggtttg ttatttggta ttetatetet
                                                                       180
ttttccaggc ctccaggttg cacatttatt tattatgttc aatactttgg ttcttagttc
                                                                       240
                                                                       300
ttaaagaatc aagaagttgt gtaatctttt aaaaatatta tcttgcagat aaagaaaaaa
                                                                       340
attaagagtg tgtttacaac tgtttnctct tttttacagt
     <210> 569
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aaccacagtc aaatataatg acaacattgg atggatagat cagtaccatt ggttacagct
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gttaaacagg ttcgttcttg gcgccacata aaaacaagcc aataacatcg aataaatcat
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                                                                        300
                                                                        360
acgtttggta aaggctattt acagtgtaca tggctgagca tgcactattt atagttacaa
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                                                                        120
                                                                        180
ncaagcacca ntcaaatatc gnantcnatt aaaagnaggn ctttcccatt tgtngccngc
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aagggccatg ttcggagtgt atgacaacat cgggatcctg ggaaactttg aaaagcaccc
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caaagaactg atcagggggc ccatatggct tcgaggttgg aaagggaatg aattgcaacg
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ttgtatccga aagaggaaaa tggttggaag tagaatgttc gctgatgacc tgcacaacct
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taataaacgc atccgctatc tctacaaaca ctttaaccga catgggaagt ttcgatagaa
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ttaaccactg agccatctct ccagcccaga tttccttttg atggtgaagc attttaattt
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ttttggttgt tctttgtttg tttttgtttt tgagatggag tctcactctg tcacccacgc
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tactgcagtc agcctgggtg acagagtaag attctgtctc aaaagaaaaa aaaagacaga
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aaagaaatgg actctgatgg aaaagatgtg tacaaggctg attatactaa gcagagggat
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atttaaataa atgctaagaa gagaggcagg tgaagctcca ggggagccat ccttcccaaa
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atttgcagaa tgatgaagtt gcatttagaa aattcaagct gattactgaa gatgttcagg
                                                                       240
                                                                       300
gtaaaaactg cctgactaac ttccatggca tggatcttac ccgtgacaaa atgtgttcca
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tggtcaaaaa atggcagaca atgattgaag ctcacgttga tgtcaagact accgatggtt
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cctcttatgc t
                                                                       431
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                                                                        240
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cctgacagtt caaatgcctc ctttgagcct agctcgtgag atgaaagaac agaagttgtt
                                                                        360
tggaccttag agccattatc cacaatcacg gatggttctc aagagttgat tgtaagaaat
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tectecacte cacatgetgg ecaagggeac agagetgeeg tategeetge caagggggtg
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geteaatget getgeeetgg teetgtatgg geeeggggtg eegagaacag acageaagee
                                                                        240
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gtctgtcatt cagtacaagg tatatttatg ttatttccaa agccatcacc ctaaaatcct
                                                                       240
aagttgccac tcttaaaacc taaaaataat gtcgaaaact aaagtcataa atacatgtat
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acactgtcct tcagtttcac acagaaggac ccctaataac tgtaaatata taaatatgtc
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                                                                     162
ggaacngggg ggggcactgg gcaggaggga atgnggangn gg
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ataaaanaac natggcaact ttgncctgan tgncnccctn cccaanctga nctggntgga
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anaagaaact tggaaactat ntnanccatg gntttgggan nctnccccct tncccatgnc
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180
                                                                     240
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                                                                    300
tattttatat atttnttcat tagggccttt tctcccnaaa acgaaanaaa aantccnaaa
aacnaaaccc aaaaaaanag agggtantgt ccnagtttct gtatgtataa agtcntncnc
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                                                                     420
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ttggcg
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                                                                       120
                                                                       180
ctcttaacat ttctttatca gacgccactg gcttcctaaa atggaccctg gactatgtat
ggggaccaca ttcattatgc tgcctttcct cttatgatta aaactttagc cctcattcga
                                                                       240
nggttccaat ggtactttta gnggaggagt ccctagcttt taaaaaaaacc acttttcctn
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taaaatccnt tntttatnga aaaaaancnt ttttaaaaat gttaaggagg attttaaatg
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tcgtcattcg aaacatagtg gaggccgcag cagtcaggga catttctgaa gcgagcgtct
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cccgatttag acctgcgggt gctgccccac gtcccccacc aaagcccatg taaggagetg
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catcanaatt gtctggaagt tttgtcttgg gcagtatggg ctgggccaaa tgaaatgatt
                                                                       120
tttataattc taaacaggtt accaaatgaa atgtcatggc tttactttgg caattaaagg
                                                                       180
                                                                       208
ggggaatttt tttaaaaaaa aaaaaaaa
      <210> 601
      <211> 165
      <212> DNA
      <213> Homo sapien
```

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<220>
      <221> misc feature
      <222> (1)...(165)
      <223> n = A, T, C or G
      <400> 601
tgcaggtcga cactagtgna tccaaagaaa gtaacctaaa cttgacctgc ttaatacatt
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ctagggcaga gaacccagga tgggacacta aaaaaatgtg tttatttcat tatctgcttg
                                                                        120
gatttatttg tgtttttgta acacaaaaaa taaatgtttt gatat
                                                                        165
      <210> 602
      <211> 416
      <212> DNA
      <213> Homo sapien
      <400> 602
aaaacggttt tgccgagttg ggacgtccac tgctgtcaag tcaaccagag atttgaactg
                                                                         60
tgcattggtg tgatccctga ggaaagtcag cactgggatg acgccatcag gatggataca
                                                                        120
gacctctaac tcattgaagc aggacacctg aacttgttgg acatacttgg gcaagatttc
                                                                        180
agccacatac tctccaaaag ctgagagctg cttgtgggcc acatcattcc gtggtctgac
                                                                        240
agtggggcgc gtgtcggccc cggcgctctc ccgcctcacc ggcagcaaca gaacggaggg
                                                                       300
tegeccagte eccetggtea gegeegagge ecceaagate eegegeeace acageetgge
                                                                       360
taccgccgcc gcgagtactt ctagagcggc cgcgggccca tcgattttcc acccgg
                                                                        416
      <210> 603
      <211> 416
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(416)
      <223> n = A, T, C or G
      <400> 603
catgagcata aaaaaaaac ccaaacctgt nccatacccc tcccactcat gcaaacagct
                                                                         60
cttaaaatga agaattcttt caaaatttta cgttttttnc attcttggct caattctttt
                                                                       120
gctttcctca tcatcagaat tcaaactttg ggcaaacatg ggttttgggc tgantctttg
                                                                       180
gaatatgctg gaaaaacccc aatatgggct gcttctgctt gtttggcatg acgcaaaatg
                                                                       240
gnttcccang atactgcatc gtcttgccaa gaatgttcca ttagaaaaag gcccgggtcc
                                                                       300
tegecaeact ggetggeete tgetgggtge ntetagagta tateggetge aceteagtge
                                                                       360
atctgtccat aatttttttg aaaaaaaaa ctcaatctta acgcgggcat attcnc
                                                                       416
      <210> 604
      <211> 414
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(414)
      <223> n = A, T, C or G
      <400> 604
```

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aaaatttatg agctttatta aagcggttta tcacaaagat ggaaacgtac aaatgagaag
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catgcaacca tcatcttcca cagtcaagtc aaactgctat ttctctctct ctcctgtttc
                                                                       120
atagagetgg aaactgeagg tgttatacce aacetattea teeteaacae tgtagteacg
                                                                       180
ccccggaaac tactcagggc accaaacatc caaaacataa actattatta tacaaagaaa
                                                                       240
                                                                       300
gtgcaaagtt aaaaaagaaa acatggagac ccctccccc cataccctca nctaaaggct
                                                                       360
aacaatggca cttgggctct tgcttaatct agattgtctt caaaaagtct ctaaaatgng
atactgngng nggnggggg ngngaanggt ccaaaagctn cttagtgttt gaaa
                                                                       414
      <210> 605
      <211> 417
      <212> DNA
      <213> Homo sapien
      <400> 605
tectetttea caateactea acaaacaggt cacacatece etaggteeae gaacteatet
                                                                        60
                                                                       120
tctcgtttgg ccaaatcgtc ttcatctccc aaagctttcc agccactggt gggtaagacg
                                                                       180
ggcttagagg aatgtcgctg gagcagagcg aaaggaaaca aagacgagag gcgggcagag
tteeteagea ggeagggge eteageetgg ggggeetget ggetgtggtg tetetegteg
                                                                       240
                                                                       300
atcttctctt gtaaactctg gacttcctcc atcatttcca agagtttgct cagagtggcc
acttggccac cacctaggat ttgggcttct ggaatccaac gtaggtagcg ctgggcccag
                                                                       360
actttgattt cgggcccctc gatatgcggt aacaacaaac catggtagtc agtggac
                                                                       417
      <210> 606
      <211> 413
      <212> DNA
      <213> Homo sapien
      <400> 606
ctgaattctt taatttaaaa aaatcatacc taggaggtgt gctataggaa ttcagataca
                                                                        60
ataagttgca tataaaaccc gacctcattg ctcattgtgg taaagcaagg atgatgagaa
                                                                       120
                                                                       180
aatgcacctc aggagcaaaa acacgcttta cgggcactcc gggacccaag tcccgagaca
tttccacgtg accttctgga aagacacacc gcccacctga ctgcacgacg ggactggtcc
                                                                       240
                                                                       300
agcctcccgg ctcctcagga aggagatgag tttcctacaa agtgagtggc cacagctcca
                                                                       360
ggacagggcg tccacatgtc gttgtgggtc tggctggatt ttgaggtgcc gaggaactgg
                                                                       413
teggtgteet gategtattg taegtggtge tetegatete ceaactgeea taa
      <210> 607
      <211> 414
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(414)
      <223> n = A, T, C or G
      <400> 607
                                                                        60
attttcatta aaactgtcag aatttgctta ctataattat gatacagtcc aaagaatgca
                                                                       120
gtcacttttt atcatgttaa ctaattgttc tcttttgaag atctatggtt gactaattaa
                                                                       180
acaataatto aagtagagtg toocagaaaa aaaccacttg ggotocotgt ttggagtotg
                                                                       240
getggetetg ageattgeea atggeeecta eteacetgae tttgtateet eteettttag
                                                                       300
aggetttgea ttetgeacce agetteacta acagtggget gaaaacatee ttgggttgag
                                                                       360
tgtttcattt gggagttatt tggccagggc cttttgaaca gtaagtgtcc ccatgaagtg
ctagataata tatggngtaa agangtcagc tttttttttt tttttaactc taac
                                                                       414
```

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<210> 608
      <211> 415
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(415)
      <223> n = A, T, C or G
      <400> 608
gcagtggtct gatcttaagg gnctatatat ttgcacctcc tcattcaaca cagggctgga
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qqttctacaa caqqaaatca qqcctacaqc atcctqtqta tcttqcaqtt qqqattttta
                                                                       120
aacatactat aaaqtctqtq ttqqtataqt acccttcata aqqaaaaaat qaaqtaatqc
                                                                       180
ctataagtag caggcctttg tacctcagtg tgaagagaaa tcaagagatg ctaaaagctt
                                                                       240
                                                                       300
tacaatggaa gtggcctcat ggatgaatcc ggggtatgag cccagganaa cgtgctgctt
                                                                       360
tttggtnacn tatccctttt tntcttaaga aagcanggtn ctntcttatt annaaatatg
                                                                       415
ttaaaaaatg gnaagcaaac nacaggtgcc tttanaaatt accaattntt aactt
      <210> 609
      <211> 420
      <212> DNA
      <213> Homo sapien
      <400> 609
ggttttaaaa ttatttcttg aatctctcca tacacaggca aaaataagtg tgttacttaa
                                                                        60
                                                                       120
catactggaa attgcctaac ttaatcattg cctaaagaag agaaaattat ccccaaaacg
tgcttaacca ggaggccaat gcatttgccg acctccaaga acatggagat gaacgtgata
                                                                       180
qacaqactqt ccaccatctq aaccttcatt caccaccatt cgataaccct tattcaggcc
                                                                       240
cagatcagca gcacatttct tgccaacaat cattaagtgt ccaagaagac tttcatcatc
                                                                       300
                                                                       360
atcttctqcc acaqaaatct qqqatatatq tttcttqqqt atcaccaqaa aatqtqttqq
tgcttqaggq qaaatgtcat ggaaagcaag gcaccggtca tccttaaaaa tgattttggc
                                                                       420
      <210> 610
      <211> 158
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(158)
      <223> n = A, T, C or G
      <400> 610
caactttaaa aaaaaggggg cggtnaaana nccaaanata aaaaggtccc tttggtggat
                                                                        60
                                                                       120
aaaggnccct ttccgggacc ggnccnggac ccacctttgg gcccaaaggg ggatttaccg
ggtaaaccaa gcctttaaag cgttgggggt taaatttc
                                                                       158
      <210> 611
      <211> 159
      <212> DNA
      <213> Homo sapien
```

```
<220>
      <221> misc feature
      <222> (1)...(159)
      <223> n = A, T, C or G
      <400> 611
tegacactag tggatecaaa ggaagatgge ggacatteag aetgagegtg eetaecaaaa
                                                                        60
                                                                       120
qcaqccgacc atctttcaaa acaagaagag ggtcctgctg ggagaaactg gcaaggagaa
gctcccgcgg tnctacaaga acatcgntct gngnttcaa
                                                                       159
      <210> 612
      <211> 419
      <212> DNA
      <213> Homo sapien
      <400> 612
gcatttttta ttaagacatt tggggcccga gtttcctctc ctcctcccct ccatcctgtg
                                                                        60
ctctctaaat tcagcttttg gaaacctaag tgtgcccacc ttccccagca ggtagccaga
                                                                       120
gcctccgggg tccctcttcc ttccttcttt ctccccagat actgcaagag acacccaagt
                                                                       180
ctgctgtcag cagagggtga agcgtctggc actgatgttc atgcgcgtga gtcccagatg
                                                                       240
ccgcagcggt ggggccagag gcaagccagt cccagactct aactccatct ccagctcagc
                                                                       300
ctcatccaga agetcctggt gcaggtgaca gacttggtcc actttcagtc tgtgcagccg
                                                                       360
ggcccgcagc ctgagcagct gccctgccag ctgccggtcc tgagcccgca tctcctgca
                                                                       419
     <210> 613
     <211> 419
     <212> DNA
     <213> Homo sapien
     <220>
     <221> misc feature
     <222> (1)...(419)
     <223> n = A, T, C or G
      <400> 613
ccccatactg aggcatataa agtttgcaaa accaaggggc ctgtcttccc aaggtcttac
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tataaaatct qqqttaqqct aaaacttatt atqtaqacca qaqaqqcqtt qattttaaac
                                                                       120
caatcatcct gtctcatctt cattatttct ggctttatga gcagaatgtc ctgctacctt
                                                                       180
tggcttctta taaagatctt taatggagta ttttaaacat tggaaaatcc atgagtttga
                                                                       240
gcttatttgg agaatgctgc taagaatggg attgactgac ataacttact agcctctttc
                                                                       300
                                                                       360
ctgcttgagg tacagcagtt ttcaatccca atgtgtaaag tgcttagaag ttatcactcc
ccaccttaga gcaaaaacct tcagagaact tcagncactc caccaggcaa atagcacct
                                                                       419
      <210> 614
      <211> 123
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(123)
      <223> n = A, T, C or G
      <400> 614
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60
gnggtatgga ctagaaaact tggaatgact catgaanaaa ccttggaatg acacatgaag
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catgataggg aaantnattc tgaggcnnga ngcttnactg aattntttcc anccagnggt
                                                                        123
ntt
      <210> 615
      <211> 362
      <212> DNA
      <213> Homo sapien
      <400> 615
gaccttgagg tttcatcggg tgattgccct tgatttctta ggctttggct tcagtgacaa
                                                                         60
accgagacca catcactatt ccatatttga gcaggccagc atcgtggaag cgcttttgcg
                                                                        120
gcatctgggg ctccagaacc gcaggatcaa ccttctttct catgactatg gagatattgt
                                                                        180
                                                                        240
tgctcaggag cttctctaca ggtacaagca gaatcgatct ggtcggctta ccataaagag
tetetgtetg teaaatggag gtatetttee tgagaeteae egteeaetee tteteeaaaa
                                                                        300
gctactcaaa gatggaggtg tgctgtcacc catcctcaca cgactgatga acttctttgt
                                                                        360
                                                                        362
      <210> 616
      <211> 210
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(210)
      <223> n = A, T, C \text{ or } G
      <400> 616
tgatgccacc ccgtcacccc tcccctcctg agcagggatc caagaatgtg ccaagagtcc
                                                                         60
cgccagcete agccaggtgg gcctgtatat agggtccatg tgcaataggg agggacgtet
                                                                        120
                                                                        180
tetatttttt getgeeceet eecegeecae tgtetngggg cagggggaga aggtatttte
nagataaagc acangcacca caaataaaag
                                                                        210
      <210> 617
      <211> 511
      <212> DNA
      <213> Homo sapien
      <400> 617
acgagettte gtggeteact ecettteete tgetgeeget eggteaeget tgtgeeegaa
                                                                         60
                                                                        120
ggaggaaaca gtgacagacc tggagactgc agttctctat ccttcacaca gctctttcac
catgcctgga tcacttcctt tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt
                                                                        180
                                                                        240
tgcccttgag atctattttc cttctcaata tgttgatcaa gcaqagttgg aaaaatatga
tggtgtagat gctggaaagt ataccattgg cttgggccag gccaagatgg gcttctgcac
                                                                        300
                                                                        360
agatagagaa gatattaact ctctttgcat gactgtggtt cagaatctta tggagagaaa
                                                                        420
taacctttcc tatgattgca ttgggcggct ggaagttgga acagagacaa tcatcgacaa
                                                                        480
atcaaagtct gtgaagacta atttgatgca gctgtttgaa gagtctggga atacagatat
                                                                        511
agaaggaatc gacacaacta atgcatgcta t
      <210> 618
      <211> 511
      <212> DNA
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<213> Homo sapien <400> 618 acgaggccac agaggcggcg gagagatggc cttcagcggt tcccaggctc cctacctgag 60 120 tocagotyte coettttety gyactattea aggagytete caggacygae tteagateae 180 tgtcaatggg accgttctca gctccagtgg aaccaggttt gctgtgaact ttcagactgg cttcagtgga aatgacattg ccttccactt caaccctcgg tttgaagatg gagggtacgt 240 ggtgtgcaac acgaggcaga acggaagctg ggggcccgag gagaggaaga cacacatgcc 300 360 tttccagaag gggatgccct ttgacctctg cttcctggtg cagagctcag atttcaaggt 420 gatggtgaac gggateetet tegtgeagta etteeacege gtgeeettee aeegtgtgga 480 caccatetee gteaatgget etgtgeaget gteetacate agetteeage eteceggegt 511 gtggcctgcc aacccggctc ccattaccca g <210> 619 <211> 413 <212> DNA <213> Homo sapien <400> 619 60 gaatteggea egagetggae aggagaagag eetggetget gaaggeaggg etgaeaegae cacgggcagc attgctggag ccccagagga tgaaagatcg cagagcacag cccccaggc 120 180 accagagtgc ttcgaccctg ccggaccggc tgggctcgtg aggccgacat ctggcctttc 240 ccagggccca ggaaaggaaa ccttggaaag tgctctaatc gctctagact ctgaaaaacc 300 caagaaactt cgcttccacc caaagcagct gtacttctct gccaggcagg gtgagctgca 360 gaaggtgctt ctcatgctgg ttgatggaat tgatcccaac ttcaaaatgg agcaccaaag 413 taagcgttcc ccattacatg ctgctgcgga ggctggccac gtggacatct gcc ·<210> 620 <211> 415 <212> DNA <213> Homo sapien <400> 620 60 gaatteggea egageggega eggtggtggt gaetgagegg ageceggtga eaggatgttg 120 gtgttggtat taggagatet geacateeca eaceggtgea acagtttgee agetaaatte 180 aaaaaactcc tggtgccagg aaaaattcag cacattctct gcacaggaaa cctttgcacc 240 aaagagagtt atgactatct caagactctg gctggtgatg ttcatattgt gagaggagac 300 ttcgatgaga atctgaatta tccagaacag aaagttgtga ctgttggaca gttcaaaatt ggtctgatcc atggacatca agttattcca tggggagata tggccagctt agccctgttg 360 415 cagaggcaat ttgatgtgga cattettate tegggacaea caeacaaatt tgaag <210> 621 <211> 421 <212> DNA <213> Homo sapien <220> <221> misc feature <222> (1)...(421) <223> n = A, T, C or G<400> 621 60 agaattenge acgagtggea geetaageeg tgggagggtt eeagtegaga atgggaagat 120 gaaagacttc agatggaaca gaaataaatg ccttttttga caaacgcagc agtgcgtgcc

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180
tctagcttgc aagagcgtta ctccccttca tagctttaaa aggttttcgc actgcgtgca
gttagagtag ctaaatcttg tgtgacgctc cacaaacact tgtaagaatt ttgcagagaa
                                                                       240
                                                                       300
agataaccgt tgccacccaa tgccccccac aggcattcta ctccccagta cctcttaggg
                                                                       360
tgggagaaat ggtgaagagt tgttcctaca acttgctaac ctagtggaca gggtagtaga
ttagcatcat ccggatagat gtgaagagga cggctgtttg gataataatt aaggataaaa
                                                                       420
                                                                       421
      <210> 622
      <211> 431
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(431)
      <223> n = A, T, C or G
      <400> 622
cccqqqqqqq ncctqqncat aaaactttaa attttactaq tqttacttaa tqtatattct
                                                                        60
aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt
                                                                       120
caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaatttct
                                                                       180
atattagtgg ttaattgcag tttattaaag ggatcattat cagtaatttc atagcaactg
                                                                       240
ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatattttt
                                                                       300
catatgaatc acagacctcg gccgcgacca cgctaagggc gaattccagc acactggcgg
                                                                       360
ccgctactag tggatccgag ctcggtacca agcttgggcg taatcatggt catagcctgt
                                                                       420
ttcctgtgtg a
                                                                       431
      <210> 623
      <211> 421
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(421)
      <223> n = A, T, C or G
      <400> 623
agaattcggc acgaggaaac atggactgcc ccttaaattt tgactgtcct aaaaacctat
                                                                        60
ttctgattta taatatgctg nctgataaag tgacactaga ngnaccnact nnatggttta
                                                                       120
aatcttccca ttcccagaat ccagaatttt ggaagccatt ttaaccaggg gtattttttn
                                                                       180
caccattacc ttttggaact ttccaaatta atggcctttt aaaaaggttg gaaggggaaa
                                                                       240
accaaaaggc caaaatttta aaaaggttgg gggggggaac cttaaaaaaa aaaatgggtt
                                                                       300
ttggggccnc cttttttaa aaggccaaaa nttttttggg ttccaattaa aaaaatttcc
                                                                       360
tttttccaac ccaaaattaa gaaaaggnaa aattaaaaaa attncaaaaa ttggnttttt
                                                                       420
                                                                       421
      <210> 624
      <211> 421
      <212> DNA
      <213> Homo sapien
      <400> 624
aagaattcgg cacgagcgga tgtgctcact gacattctac tccaagtcgg agatgcagat
                                                                        60
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ccactccaag tcacacaccg cgccaacagc tcctacctgg ttgtaacttc tgtgagaaat ccacactggt gatagaccat actctccaat ctgcagtccc caactgtcat cgggcgtaca a	cccagcacat ccttccgcca acaaatgtgc acagacggca	ccgtatacac gctctcccac acacccaggc acacaacaaa	tcaggggcta cttcagcagc tgtgagaaag gataaaccct	agccctacag acacccgaat ccttcacaca tcaagtgcca	120 180 240 300 360 420 421
<210> 625 <211> 421 <212> DNA <213> Homo sapio	en				
<pre><400> 625 agaattcggc acgagctact ggggccaggc aagagttagc cccggccccg cgtcgtctgg tatgatgacc gattgatgaa cttgctaaaa agggggtcaa gttgtgacct caaaggggaa attacaacca gtgacactgc g</pre>	catgaagagc cgccgccgcc agcagcagaa tccaggcaaa tcttgagtgt	ctcaagtccc gccagcgcgc aggggggatg ctagatgtgg ttgaatgcca	gcctgaggag atgcagcaga tagaaaaagt aaggcagatc tccttataca	gcaggacgtg ttggaataaa gacgtcaatc tgtcttccat tggagttgat	60 120 180 240 300 360 420 421
<210> 626 <211> 476 <212> DNA <213> Homo sapid	en				
<pre><400> 626 agaattgatc tatagattta catagacaat agacatagcc agttatacaa tcttgacaaa accatgtaac tacagtcatc aatggaatgt aacagaggac acaagcgtgc aaaacaattc ccggacatcc ataggaaaaa acacaaaatg aatcataggc</pre>	aaaacttatt gaagaataaa aagagagtgt ccagaaatag aatggaagaa atgaacccat	ctaaaataca gtgggaagaa ggtatcggca gcccacacag taagctttca acctaaacca	tatgaagatg tctatttgat gacggtcaga atatgctcaa aaaaaatggc taaaccttat	cacaggeeet tttaaggett catacagate tggatatttg gttggageaa ataaaaataa	60 120 180 240 300 360 420 476
<210> 627 <211> 503 <212> DNA <213> Homo sapie	en				
<400> 627 tagccctcgg tgaagcccca aacatgttct gcatgtccag tctggagaga gatggtagag tggtgatctc tggtgcagga cggacatcct gcagcccaaa tcatcactcg ataccaggag ctgccgtcca tgggggctgc ggtactgtgc ccaggatgct atgtaggaac actgcagcgc	ctcaaccggc tgcttcaaca aaaatgttca ggagatgatg accttcaacg attggcggag ttcttccagg	ccaacaagag agatttcgag ctgcaggtat tggcccggat tcatcgagag gtgtggacct	gaatgccatg agacgctgac tgacctgatg cagctggtac gtgcccaag tgtcaccgc	aacaaggtct tgtcgggcgg gacatggctt ctccgtgaca cccgtgattg tgtgacatcc	60 120 180 240 300 360 420 480 503

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      <211> 248
      <212> DNA
      <213> Homo sapien
      <400> 628
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                                                                         60
cttggttcca gcggctcctc ttccgcttct tacttgggaa gtccaacggc gtggcgttcg
                                                                        120
ctccggtcgc catggcgccc ccggggacag gcaccggcac ctgcttttcc tctgcggcgg
                                                                        180
cttctccttc gcaagcctcc cggggggagg ggacccgaat gcgctgccgg agcgcgcgga
                                                                        240
gcccgtcc
                                                                        248
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      <211> 99
      <212> DNA
      <213> Homo sapien
      <400> 629
actgccagtc caaaggcatc gtggtgaccg cctacagccc cctcggctct cctgacaggc
                                                                         60
cctgggccaa gcccgaggac ccttctctc tggaggatc
                                                                         99
      <210> 630
      <211> 640
      <212> DNA
      <213> Homo sapien
      <400> 630
gaagacatga tgctacactc agctttgggt ctctgcctct tactcgtcac agtttcttcc
                                                                        60
aaccttgcca ttgcaataaa aaaggaaaag aggcctcctc agacactctc aagaggatgg
                                                                        120
ggagatgaca tcacttgggt acaaacttat gaagaaggtc tcttttatgc tcaaaaaagt
                                                                       180
aagaagccat taatggttat tcatcacctg gaggattgtc aatactctca agcactaaag
                                                                       240
aaagtatttg cccaaaatga agaaatacaa gaaatggctc agaataagtt catcatgcta
                                                                        300
aaccttatgc atgaaaccac tgataagaat ttatcacctg atgggcaata tgtgcctaga
                                                                        360
atcatgtttg tagaccette tttaacagtt agagetgaca tagetggaag atactetaac
                                                                       420
agattgtaca catatgagcc tcgggattta cccctattga tagaaaacat gaagaaagca
                                                                       480
ttaagactta ttcagtcaga gctataagag atgatggaaa aaagccttca cttcaaagaa
                                                                       540
                                                                        600
gtcaaatttc atgaagaaaa cctctggcac attgacaaat actaaatgtg caagtatata
gattttgtaa tattactatt tagttttttt aatgtgtttg
                                                                        640
      <210> 631
      <211> 168
      <212> PRT
      <213> Homo sapien
      <400> 631
Glu Asp Met Met Leu His Ser Ala Leu Gly Leu Cys Leu Leu Leu Val
                 5
                                     10
Thr Val Ser Ser Asn Leu Ala Ile Ala Ile Lys Lys Glu Lys Arg Pro
            20
                                25
Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Asp Ile Thr Trp Val Gln
                            40
Thr Tyr Glu Glu Gly Leu Phe Tyr Ala Gln Lys Ser Lys Lys Pro Leu
                        55
Met Val Ile His His Leu Glu Asp Cys Gln Tyr Ser Gln Ala Leu Lys
```

```
65
                    70
                                       75
Lys Val Phe Ala Gln Asn Glu Glu Ile Gln Glu Met Ala Gln Asn Lys
                                   90
Phe Ile Met Leu Asn Leu Met His Glu Thr Thr Asp Lys Asn Leu Ser
                               105
                                                   110
Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro Ser Leu
                           120
Thr Val Arg Ala Asp Ile Ala Gly Arg Tyr Ser Asn Arg Leu Tyr Thr
                       135
                                           140
Tyr Glu Pro Arg Asp Leu Pro Leu Leu Ile Glu Asn Met Lys Lys Ala
                                       155
Leu Arg Leu Ile Gln Ser Glu Leu
               165
      <210> 632
      <211> 402
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(402)
      <223> n = A, T, C or G
      <400> 632
gcccggacgt aggtagtttg ttgggccggg ttctgaggcc ttgcttctct ttacttttcc
                                                                      60
actotaggee acgatgeege agtaccagae etgggaggag tteageegeg etgeegagaa
                                                                     120
gctttacctc gctgacccta tgaaggcacg tgtggttctc aaatataggc attctgatgg
                                                                     180
gaacttgtgt gttaaagtaa cagatgattt agtttgtttg gtgtataaaa cagaccaagc
                                                                     240
tcaaqatqta aagaaaattq aqaaattcca caqtcaacta atqcnactta tqqtacccaa
                                                                     300
360
tacttaggaa gtaaatatct tttgaattan aaaaagtgtt gg
                                                                     402
      <210> 633
      <211> 402
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(402)
      <223> n = A, T, C or G
      <400> 633
                                                                      60
gcggagtcgg gtgggttggc ggctataaag ctggtagcga aggggaggcg ccgcggactg
tcctttcgtg gctcactccc tttcctctgc tgccgctcgg tcacgcttgc tctttcacca
                                                                     120
tgcctggatc acttcctttg aatgcagaag cttgctggcc aaaagatgtg ggaattgttg
                                                                     180
cccttgagat ctattttcct tctcaatatg ttgatcaagc agagttggaa aaatatgatg
                                                                     240
gtgtagatgc tggaaagtat accattggct tgggccangc caagatgggc ttctgcacag
                                                                     300
atagagaaga tattaactct ctttgcatga ctgtggttca gaatcttatg qagagaaata
                                                                     360
acctttccta tgattgcatt gggcggntgg aagttggaac ag
                                                                     402
```

```
<211> 386
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(386)
      <223> n = A, T, C or G
      <400> 634
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                                                                      60
                                                                     120
cccggctgtg gagcaactga accgggtgac tgtcccaagc tggactccct ggtggcccag
cagetgeaga geaagaatga qtgtggaate ettgeegaee eeaaggggee etteegggag
                                                                     180
tgccatagca agctggaccc ccagggtgcc gtgcgcgact gtgtctatga ccgctgcctg
                                                                     240
ctgccaggcc agtctgggcc actgtgtgac gcactggcca cctatgctgc tgcatgccag
                                                                     300
gctgctggag ccacagtgca cccctggagg agtgaagaac tttgcccact tganctgcca
                                                                     360
concacanno ctatnaggog tgttct
                                                                     386
      <210> 635
      <211> 404
      <212> DNA
      <213> Homo sapien
      <400> 635
gccaccactt cgtagtgttt tggaacaaac caagttaaag aaagaagata tttatgcagt
                                                                      60
                                                                     120
ggagatagtt ggtggtgcta cacgaatccc tgcggtaaaa gagaagatca gcaaattttt
cggtaaagaa cttagtacaa cattaaatgc tgatgaagct gtcactcgag gctgtgcatt
                                                                     180
gcagtgtgcc atcttatcgc ctgctttcaa agtcagagaa ttttctatca ctgatgtagt
                                                                     240
accatatcca atatctctga gatggaattc tccagctgaa gaagggtcaa gtgactgtga
                                                                     300
agtcttttcc aaaaatcatg ctgctccttt ctctaaagtt cttacatttt atagaaagga
                                                                     360
acctttcact cttgaggcct actacagctc tcctcaggat ttgc
                                                                     404
      <210> 636
      <211> 403
      <212> DNA
     <213> Homo sapien
     <220>
     <221> misc_feature
     <222> (1)...(403)
     <223> n = A, T, C or G
     <400> 636
gctcactggt ccccagtgcc ctgctggagc aagcctatgc tgtgcagatg gacttcaacc
                                                                      60
tgctagtgga tgctgtcagc cagaacgctg ccttcctgga gcaaactctt tccagcacca
                                                                     120
tcaaacagga tgactttacc gctcgtctct ttgacatcca caagcaagtc ctaaaagagg
                                                                     180
                                                                     240
cagatggctc cccagccctg aaacagatcg aaatcaacac catctctgcc agctttgggg
                                                                     300
                                                                     360
gcctggcctc ccggacccca nctgtgcacc gacatgttct cagtgtcctg agtaagacca
aagaagctgg caagatcctc tctaataatc ccagcaaggg act
                                                                     403
     <210> 637
     <211> 441
      <212> DNA
```

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<213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(441)
      <223> n = A, T, C or G
      <400> 637
                                                                        60
aggtcgacac tagtggatcc aaanaattcg gcacgaggag agagacccta aaagcaaaaa
                                                                       120
tagaagggat gacccaaagt ctgagaggtc tggaattaga tgttgttact ataaggtcag
                                                                       180
aaaaagaaaa tctgacaaat gaattacaaa aagagcaaga gcgaatatct gaattagaaa
taataaattc atcatttgaa aatattttgc aagaaaaaga gcaagagaaa gtacagatga
                                                                       240
                                                                       300
aagaaaaatc aagcactgcc atggagatgc ttcaaacaca attaaaagag ctcaatgaga
                                                                       360
gagtggcagc cctgcataat gaccaagaag cctgtaaggc caaagagcag aatcttagta
                                                                       420
gtcaagtaga gtgtcttgaa cttgagaagg ctcagttgct acaaggcctt gatgaggcca
aaaataatta tattgtttgc a
                                                                       441
      <210> 638
      <211> 404
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(404)
      <223> n = A, T, C or G
      <400> 638
gcgctgccgc cgattccgga tctcattgcc acgcgccccc gacgaccgcc cgacgtgcat
                                                                        60
tcccgattcc ttttggttcc aagtccaata tggcaactct aaaggatcag ctgatttata
                                                                       120
atcttctaaa ggaagaacag acccccaga ataagattac agttgttggg gttggtgctg
                                                                       180
ttqqcatqqc ctqtqccatc aqtatcttaa tqaaqqactt qqcaqatqaa cttqctcttq
                                                                       240
ttgatgtcat cgaagacaaa ttgaagggag agatgatgga tctccaacat ggcagccttt
                                                                       300
tcttagaaca ccaaagattg tctntggcaa agactataat gtaactgcaa ctncagctgg
                                                                       360
cattatcacg ntggggacgt cagaagaagg agaaagccgc ttat
                                                                       404
      <210> 639
      <211> 404
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(404)
      <223> n = A, T, C or G
      <400> 639
                                                                        60
gcatgtaccg agcacttcgg ctcctcgcgc gctcgcgtcc cctcgtgcgg gctccagccg
cagcettage tteggeteec ggettgggtg gegeggeegt geeetegttt tggeeteega
                                                                       120
acgcggctcg aatggcaagc caaaattcct tccggataga atatgatacc tttggtgaac
                                                                       180
                                                                       240
taaaggtgcc aaatgataag tattatggcg cccagaccgt gagatctacg atgaacttta
                                                                       300
agattggagg tgtgacagaa cgcatgccaa ccccagttat taaagctttt ggcatcttga
                                                                       360
aacgagcggc cgctgaagta aaccaggatt atggtcttga tccaaaaatt gctaatgcaa
                                                                       404
taatgaangc agcanatgaa gnanctgaag gtaaataaaa tgat
```

```
<210> 640
      <211> 401
      <212> DNA
      <213> Homo sapien
      <400> 640
ggccaagtca gcttcttctg agagagtctc tagaagacat gatgctacac tcagctttgg
                                                                         60
gtetetgeet ettactegte acagtttett ceaacettge cattgeaata aaaaaggaaa
                                                                        120
agaggeetee teagacacte teaagaggat ggggagatga cateacttgg gtacaaactt
                                                                        180
                                                                        240
atgaagaagg totottttat gotoaaaaaa gtaagaagoo attaatggtt attoatoaco
tggaggattg tcaatactct caagcactaa agaaagtatt tgcccaaaat gaagaaatac
                                                                        300
                                                                        360
aagaaatggc tcagaataag ttcatcatgc taaaccttat gcatgaaacc actgataaga
atttatcacc tgatgggcaa tatgtgccta gaatcatgtt t
                                                                        401
      <210> 641
      <211> 404
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(404)
      <223> n = A, T, C or G
      <400> 641
ggctcatcgc agacaccagc cgacctaccg gctttcggac catggccaac ctcgagcgta
                                                                         60
ccttcattgc catcaagcca gatggcgtgc agcgcggcct ggtgggcqag atcatcaaac
                                                                        120
gattcgagca gaaggggttc cgctggtqgc catqaagttc cttcqqqctn ttgaaqaaca
                                                                        180
cctgaacagc attacatcga ccctgaacga accgtccttt ctttccnggg gctggtgaaa
                                                                        240
                                                                        300
tacatgaact tnggggccat ngtgggcatg ggcttgggaa ggggntcaat ggtggtggaa
                                                                        360
aaccggcccg aatgattctt ggggggaana acaaatccaa nttqatttaa aaaccaqqca
nccattnccg ggggggattt tnttgnnttt naaanttggg nagg
                                                                        404
      <210> 642
      <211> 366
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(366)
      <223> n = A, T, C or G
      <400> 642
tgcaggtcga cactagtgga tccaantaat tcggcacgag gagcaaaggc acatcttaaa
                                                                         60
tggcagggga actacccttg atacaaccat cagatctcat gagactcact gtcatgagaa
                                                                        120
cagcagcatg ggggtaacgg ccccatgatt caattacctc ccactgagtc cctcccacga
                                                                        180
catatgggga ttatgggagc tacaattcaa gatgagattt aggtggggac acagccaaac
                                                                        240
                                                                        300
catttcaata gcataacacc aaaaaaggtt atagagcagt aaaagggttg atggaccatg
catcagtaat aataataata attataagtg atctttaaac attcatcagg tgccaagcct
                                                                        360
                                                                        366
cgtgcc
```

```
<211> 403
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(403)
      <223> n = A, T, C or G
      <400> 643
gtgacctgat gagacagtta attatggcca atccacaaat gcagcagttg atacagagaa
                                                                      60
atccagaaat tagtcatatg ttgaataatc cagatataat gagacaaacg ttggaacttg
                                                                     120
ccaggaatcc acaatgatgc agganaagat gaagaaccaa gacccaactt tnancaacct
                                                                     180
aaaaannntt ccnaggggnn ttnanngttt nanggnentt ntccccaant tttnagganc
                                                                     240
cattgttnat ngntgnncaa aannagttng gnggaaatcc ttttgtttcc ttgggganca
                                                                     300
atacatcctt tggngaaggt agtcaacctt cccgtncana aattagaaat cccctnccca
                                                                     360
atcontgggn tocacaaact toccaaagtt antnagttto cac
                                                                     403
      <210> 644
      <211> 403
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1) ... (403)
      <223> n = A, T, C or G
      <400> 644
ggggatgaca gccctaacaa gaactgtttt tgaatcgttg tgcagctcca ggcaatagag
                                                                      60
                                                                     120
tatgtgaagc gatttcagta gaatcactta ctcatcctaa aagaaaacat tattccnant
accntccttn nnattnccnt nttntaannn aaacntanng ntnnntgnnt gttnannggn
                                                                     180
atnancttta aanntgcant ntnntttant cctccaaatn tttttcggtt tcntntgaga
                                                                     240
                                                                     300
ancaccanaa netteette eettneette agtantigea anagganace teentinagg
actggcntag ngaacgtaat ccatgcttta actgccatta aacagcccca tggttggatt
                                                                     360
ttttttttt ttngagtngg ctttccaaaa ccttgtcaaa aac
                                                                     403
      <210> 645
      <211> 405
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(405)
      <223> n = A, T, C or G
      <400> 645
gcgccttcca ggccgcactc cagagccaaa agagctccat ggcggcggcg gccaagccca
                                                                      60
120
ctgaaccagg cccaaatgag gtcttgctga ggatgcattc tgttggaatc ttgtggctta
                                                                     180
                                                                     240
aatgtcacta ctgggagtat gggcnaattg ggaattttat tgngaaaaac ccatggggtt
                                                                     300
ggacatgaag ttcggacagt cnaaaaagtg ggatcatcgg naaagaccta aaaccaggtg
atcggttgca tcacctgggc tcccgaaaaa tgataattnt gaagatggcc atacatntgt
                                                                     360
```

```
accttcatnt tttntggcac ccccccnata cggaactttg cggtt
                                                                        405
      <210> 646
      <211> 412
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(412)
      <223> n = A, T, C \text{ or } G
      <400> 646
ggaacccagt gcctgcagcc atggctcccg gccagctcgc cttatttagt gtctctgaca
                                                                         60
aaaccggcct tgtggaattt gcaagaaacc tgaccgctct tggtttgaat ctggtcgctt
                                                                        120
                                                                        180
ccggagggac tgcaaaagct ctcagggatg ctggtctggc agtcagagat gtctctgagt
                                                                        240
tgacgggatt tcctgaaatg ttggggggac gtgtgaaaac tttgcatcct gcagtccatg
ctggaatcct agctcgtaat attccagaag ataatgctga catggccaga cttgatttca
                                                                        300
atcttataag agttgttgcc tgcaatctct atccctttgt aaagacaagt ggcttctcca
                                                                        360
ggtgtaactg ttgaggangc tgtgggagca aattgacatt ggtgggagta ac
                                                                        412
      <210> 647
      <211> 412
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(412)
      <223> n = A, T, C or G
      <400> 647
                                                                         60
ggtcgcccgg cgccccagcc cggccgcggc gctccccgcc tccccgctag cgcanncggc
                                                                        120
ngntctgntc ggctgattnc cagctatgan acaaggagaa tgaaaatatg aagaaaaagc
                                                                        180
tgaacaaaaa agttanntag ctaaaacagg acttgcagnn ttnaaaacag gtccttgatg
gcaaagaaga ggttgagaaa caacntagag aaaatattna aantctaaat tccatggtag
                                                                        240
                                                                        300
aacgccaaga gaaagatctt ggccgtcttc aggtagacat ggatgaactt gaagaaaaga
                                                                        360
accgaagtat tcangctgcc tggatagtgc atacaaagaa cttactgatc tttacaaagc
caatgctgca aangatagtg aggnacanga agctgctctn accgtgaaat ga
                                                                        412
      <210> 648
      <211> 413
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(413)
      <223> n = A, T, C or G
      <400> 648
                                                                         60
ggtegeeegg egeeeeagee eggeegegge geteeeegee teeeegetag egeageeegg
                                                                        120
eggetetgee eggetgeege eeggeatgaa cateatggat tteaaegtga agaaaettgg
cgggccgacc gggcaccttt tcttaagccg gcccgtgnaa tttanaaaaa aaaaacttgg
                                                                        180
```

```
240
ncaaqcaaaa aaaaanaaaa ttqqncctta ncttqaaaan cttcttaaca aaacttaatq
qtccaaaata ttgaccgaaa aaaaaatgna ncaaaccnna ntgnttttgc acccaatncn
                                                                       300
aatnocnnga nnaaaaaaat tgnttattaa aaacntgaat aaaaancccc aannotatna
                                                                       360
                                                                       413
acaaccccga actttttgga cnatntntna ntgatnnnng aacntaattt ggc
      <210> 649
      <211> 409
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(409)
      <223> n = A, T, C or G
      <400> 649
actagtggat ccaaagantt cggcacgagg gcanggtgtn cgggcgggaa ggggcacggg
                                                                        60
                                                                       120
caccecegeg gteeteggga ggetagagat catggaaggg aagtggttge tgtgtatgtt
actggtgctt ggaactgcta ttgttgaggc tcatgatgga catgatgatg atgtgattga
                                                                       180
tattgaggat gaccttgacg atgtcattga agaggtagaa gactcaaaac cagataccac
                                                                       240
tgctcctcct tcatctccca aggttactta caaagctcca nttccaacag gggaagtata
                                                                       300
ttttqctqat tcttttqaca qaqqaactct qtcaqqqtqq attttatnca naqccaanaa
                                                                       360
agacnatccn atgatgaaaa ttgccnaata tnatggaaaa gtgggaggt
                                                                       409
      <210> 650
      <211> 413
     <212> DNA
     <213> Homo sapien
     <220>
     <221> misc feature
     <222> (1)...(413)
     <223> n = A, T, C or G
      <400> 650
ggcctgagga ccggcaacat ggtgcggtcg gggaataagg cagctgttgt gctgtgtatg
                                                                        60
                                                                       120
qacqtqqqct ttaccatqaq taactccatt cctqqtataq aatccccatt tqaacaaqca
aagaaggtga taaccatgtt tgtacagcga caggtgtttg ctgagaacaa ggatgagatt
                                                                       180
                                                                       240
gctttagtcc tgtttggtac agatggcact gacaatcccc tttctggtgg ggatcagtat
                                                                       300
cagaacatca cagtgcacag acatctgatg ctaccagatt ttgatttgct ggaggacatt
gaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tggatgcact aatcgtgagc
                                                                       360
                                                                       413
atggatgtga ttcacatgaa acaataggaa agaagtttga gaanaagcat att
      <210> 651
      <211> 441
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(441)
      <223> n = A, T, C or G
      <400> 651
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ctagtggatc caaaganttc ggcacgaggc aaccagtgac actgcaggga gaaatgctct tcacctggct gctaagtatg gacatgcatt gtgcctacaa aaacttctac agtacaattg tcccactgag catgcagacc tgcagggaag aactgcactt cacgatgccg caatggcaga ttgtccttct agcatacagc tgctttgtga ccatggggcc tctgtgaatg ccaaagatgt agacgggcgg acaccacttg ttctggctac tcagatgagt aggccaacaa tgtgtcaact gctgatagat agaggagcgg atgttaattc cagagacaaa caaaacagaa ctgccctcat gctaggttgc gaatatggtt gcagagatgc agtagaagtc ttaattaaaa atgggtgctg atataagctt gctggatgcg c	60 120 180 240 300 360 420 441
<210> 652 <211> 412 <212> DNA <213> Homo sapien	
<pre><400> 652 gcttctctct cctgtgcaaa atggcaactc ttaaggaaaa actcattgca ccagttgcgg aagaagaggc aacagttcca aacaataaga tcactgtagt gggtgttgga caagttggta tggcgtgtgc tatcagcatt ctgggaaagt ctctggctga tgaacttgct cttgtggatg ttttggaaga taagcttaaa ggagaaatga tggatctgca gcatgggagc ttatttcttc agacacctaa aattgtggca gataaagatt attctgtgac cgccaattct aagattgtag tggtaactgc aggagtcccg tcagcaagaa ggggagagtc ggctcaatct ggtgcagaga aatggtaatg tcttcaaatt cattattcct cagatccgca agtacagtcc tg</pre>	60 120 180 240 300 360 412
<210> 653 <211> 414 <212> DNA <213> Homo sapien	
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<210> 654 <211> 404 <212> DNA <213> Homo sapien	
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tgagatggtt aaaggtggtt tggggaggga cttcgttgta atggttttgc tgtaaaaaat
                                                                       240
gtttccaact ccgctgaaat gttgctgaaa agcatggtgc tggtaacagt tcaacaatcc
                                                                       300
gtggctgctc attcttgcct actttactct cccactgaag caggttagcg tttgaaggtg
                                                                       360
gtatggaaaa cctgcatgcc tgttcaattc ttttgtttct tc
                                                                       402
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      <211> 416
      <212> DNA
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      <400> 656
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                                                                       180
gctgagcaaa gtgcgtgagg agtttaagga gctgaaagcg cgcaatacca agaaggaggg
tgacctgata gctgctcagg ctcggctgaa ggacctggag gctctgctga actccaagga
                                                                       240
ggccgcactg agcactgctc tcagtgagaa gcgcacgctg gagggcgagc tgcatgatct
                                                                       300
                                                                       360
gcggggccag gtggccaagc ttgaggcagc cctaggtgag gccaagaagc aacttcagga
tgagatgctg cggcgggtgg atgctgagaa caggctgcag accatgaagg aggaac
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      <211> 402
      <212> DNA
   <213> Homo sapien
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tgggctgtcc aagcatgttg aagacgtccn cgnntttcag gcccttggct cactcaatga
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                                                                       240
cctccagttc tttagataca acagtaaaga caggaagtct cagcccatgg gactctggag
                                                                       300
acaggtggaa ggaatggagg attggaagca ggacagccaa cttcagaagg ccagggagga
                                                                       360
catctttatg gagaccctga aagacattgt ggagtattac aacgacagta acgggtctca
cgtattgcag ggaaggtttg gtttgtgaga tcgagaataa ca
                                                                       402
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      <211> 404
      <212> DNA
      <213> Homo sapien
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aatcattttc cttatctgct tcctagtcct gtatgccctt ttcctaacac tcacaacaaa
                                                                       180
actaactaat actaacatct cagacgetea ggaaatagaa acegttgaae tateetgeee
                                                                       240
gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag
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ccaccagcag cagcaccacc agcagcaaca gcagcagccg ccaccaccgc ca	
aaatgggcaa caggccagca gccaaaatga aggcttgact attgacctga agaaaaccagga gagaagacct tcacccaacg aagccgtctt tttgtgggaa atcgacatcact gaggaagaaa tgaggaaact atttgagaaa tatggaaagg c	
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aatgcagatc ttcgtgaaga ctctgactgg taagaccatc accctcgagg ttg	gagcccag 120
tgacaccatc gagaatgtca aggcaaagat ccaagataag gaaggcatcc cto	
gcagaggctg atctttgctg gaaaacagct ggaagatggg cgcaccctgt ctg	
catccagaaa gagtccaccc tgcacctggt gctccgtctc agaggtggga tgc cgtgaagaca ctcactggca agaccatcac ccttgaggtc gagcccagtg aca	
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atcoggtgaa ttttccaggc agcttgatga gaaggaagcg ctggtatctc agt	•
gggcaaacag gcattcactc aacagattga ggagctaaag aggcaacttg aag	_
aaaggccaag aacgcgctgg cccacgccct gcagtcctcc cgccatgact gto	
gcgggaacag tacgaggagg agcaggagtc taaggctgaa ctgcagaggg c	411
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accgggctac cageccacet acaacccgac getgeettac taccagecca tec	-

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180
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cttcgtgaac tttgtggttg ggcaggatcc gggctcagac gtcgccttcc acttcaatcc
                                                                       240
                                                                       300
gcggtttgac ggctgggaca aggtggtctt caacacgttg cagggcggga agtggggcag
                                                                       360
cgaggagagg aagaggagca tgcccttcaa aaagggtgcc gcctttgagc tggtcttcat
agtcctggct gagcactaca aggtggtggt aaatggaaat cccttctatg agta
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      <211> 414
      <212> DNA
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      <221> misc feature
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      <223> n = A, T, C or G
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ccgagctgaa cctgcgccgn ctcttcgatg ccaacaagga ccgcttnaac cacttcagct
                                                                       180
tgaccetcaa caccaaccat gggcatatce tggnggatta etceaagaac etggtgaegg
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aggacgtgat gcggatgctg gtggacttgg ccaagtccag gggcgtggag gccgaccggg
                                                                       300
ageggatgtt caatggtgan aagatcaact acaccegang gtegageegt getgeacgtg
                                                                       360
gctctgcgga accggttcaa acacacccat nctgggagac ggcaangatg tgat
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gaacgcatct cagcccgagg tgctggtccc catccgctgg acatggagat cgatggcag
                                                                       180
aagctgcgag acgccttcac ctggaacatg aatgagaagt tgatgacgcc tgagatgttt
                                                                       240
                                                                       300
tcagaaatcc tctgtgacga tctggatttg aacccgctga cgtttgtgcc agccatcgcc
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totgocatca gacagcagat cgagtoctac cocacggaca gcatcotgga ggaccagtca
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gaccagegeg teateateaa getgaacate catgtgggaa acattteeet g
      <210> 665
      <211> 409
      <212> DNA
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                                                                       120
                                                                       180
eggeteegtg egttttggge egggggtege ttttegegeg eecageatte aegggggete
                                                                       240
cggcggccgc ggcgtatccg tgtcctccgc ccgctttgtg tcctcgtcct cctcgggggg
ctacggcggc ggctacggcg gcgtcctgac cgcgtccgac gggctgctgg cgggcaacga
                                                                       300
                                                                       360
gaagetaace atgeagaace teaacgaceg cetggeetee tacetggaca aggtgegege
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cctggaggcg gccaacggcg agctagaggt gaagatccgc gactggtac
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<211> 411
      <212> DNA
      <213> Homo sapien
      <400> 666
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cactctcctg tgcctgccag aagagacaga gcttgaggag agcttgagga gagcaggaaa
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gcagcctccc ccgttgcccc tctggatcca ctgcttaaat acggacgagg acagggccct
gtctcctcag cttcaggcac caccactgac ctgggacagt gaatcgacaa tgccgtcttc
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tgtctcgtgg ggcatcctcc tgctggcagg cctgtgctgc ctggtccctg tctccctggc
                                                                       360
                                                                       411
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      <211> 412
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      <213> Homo sapien
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gccctaaaag aatttaaatt ggagagagaa gttgttgaga aagagttatt agaaaaagtt
                                                                       240
aaacatcttg agaatcaaat agcaaaaagt cctgccattg actctaccag aggagattct
tcaagcttag ttgctgaact tcaagaaaag cttcaggaag aaaaagctaa gtttctagaa
                                                                       300
                                                                       360
caacttgaag agcaagaaaa aagaaagaat gaagaaatgc aaaatgttcg aacatctttg
                                                                       412
attgcggaac aacagaccaa ttttaacact gttttaacaa gagagaaaat ga
      <210> 668
      <211> 411
      <212> DNA
      <213> Homo sapien
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      <221> misc feature
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      <223> n = A, T, C or G
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ttgncctnnn ataatttnaa ttggngagga gaanntnttn tnatcaaaag ttnttttana
                                                                       240
aaaagntann ncatcttnnn ntaatnaaag tattacanna ntnactgccn attgacttta
ccanaagaga angcttcnng gctttgttgc tgaancttaa tnaaaaggnt atggggantn
                                                                       300
nanaaaannt aanttnnntn ganntaatct ttgnttgcag cttatcatnn ttngntatna
                                                                       360
aannaganaa tanttotaat nnntgtttto gaatotatna tnnotnnttt t
                                                                       411
      <210> 669
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      <212> DNA
      <213> Homo sapien
      <400> 669
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taatactttg aggaacactg tggaaacaga aagagaggag tccaagattc tactggaaaa
                                                                       120
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gatggaactt gaagtggcag agagaaaatt atccttccat aatctgcagg aagaaatgca
                                                                        180
tcatctttta gaacagtttg agcaagcagg ccaagcccag gctgaactag agtctcggta
                                                                        240
tagtgctttg gagcagaagc acaaagcaga aatggaagag aagacctctc atattttgag
                                                                        300
tcttcaaaag actggacaag agctgcagtc tgcctgtgat gctctaaagg atcaaaattc
                                                                        360
aaagcttctc caagataaga atgaacaggc agttcagtca gcccagacca tt
                                                                        412
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      <211> 411
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(411)
      <223> n = A, T, C or G
      <400> 670
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acgagagcag ccacccagat ttgcacagcc tggctccttt gagtatgaat atgccatgcg
                                                                       120
                                                                       180
ctggaaggca ctcattgaga tggagaagca gcancaggac caagtggacc gcaacatcaa
ggaggctcgt gagaagctgg agatggagat ggaagctgca cgccatgagc accaggtcat
                                                                       240
                                                                       300
gctaatgaga caggatttga tgaggcgcca agaagaactt cggaggatgg aagagctgca
                                                                       360
caaccaagag gtgcaaaaac gaaagcaact ggagctcagg caggaggaag ancgcaggcg
                                                                       411
ccgtgaagaa ganatgcggc ggcagcaaga agaaatgatg cggcgacagc a
      <210> 671
      <211> 411
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(411)
      <223> n = A, T, C or G
      <400> 671
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tateccetea eeggeeteae actagtateg catgteeact atecagaace tecaatettt
cgaccccttt gctgatgcaa ctaagggtga cgacttactn ccggcaggga ctgaggatta
                                                                       180
                                                                       240
cattcatata agaatccagc aacggaacgg cagaaagaca ctgactactg ttcagggcat
                                                                       300
tgcagatgat tatgacaaaa agaaacttgt gaaagctttc aaaaagaaat ttgcctgtaa
                                                                       360
tggtactgtg attgaacatc ctgaatacgg agaggttatt cagcttcaag gtgaccaaag
                                                                       411
aaaaaacatc tgccagtttc tcttggaggt tggcattgta aaggaggaac a
      <210> 672
      <211> 409
      <212> DNA
      <213> Homo sapien
      <400> 672
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aagtataggc gatagaaatt gaaacctggc gcaatagata tagtaccgca agggaaagat
                                                                       120
                                                                       180
gaaaaattat aaccaagcat aatatagcaa ggactaaccc ctataccttc tgcataatga
                                                                       240
attaactaga aataactttg caaggagagc caaagctaag acccccgaaa ccagacgagc
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tacctaagaa cagctaaaag agcacacccg tctatgtagc aaaatagtgg gaagatttat
                                                                        300
aggtagaggc gacaaaccta ccgagcctgg tgatagctgg ttgtccaaga tagaatctta
                                                                        360
gttcaacttt aaatttgccc acagaaccct ctaaatcccc ttgtaaatt
                                                                        409
      <210> 673
      <211> 412
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(412)
      <223> n = A, T, C or G
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eggegeeget ttetgegaee tggeegteag eeceaegteg eeggeetgga ggggeaaaga
ggacgagggg gccgcggctt cctccgggga ccttggcttg cctggattgc caggagctgg
                                                                        180
aagttgacat tgagtctagg ctgaggatgg aaggtgtgga gctgaaggaa gaatggcagg
                                                                        240
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atgaagattt tccaatacct ttaccagaag atgacagcat tgaagcagat acactagatg
                                                                        360
gaactgatcc agacagacag cctggctcct tagaagttaa tgggaacaaa gtaaggaaga
                                                                        412
aactgatggc cccagacatc agcctgaccc tggatcctgg tgaagactct ct
      <210> 674
      <211> 413
      <212> DNA
      <213> Homo sapien
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      <221> misc_feature
      <222> (1)...(413)
      <223> n = A, T, C or G
      <400> 674
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                                                                        120
                                                                        180
agaatcgtat tggttacagc tggtacaaag gcgaaagagt ggatggcaac agtctaattg
                                                                        240
taggatatgt aataggaact caacaagcta ccccagggcc cgcatacagt ggtcgagaga
caatataccc caatgcatcc ctgctgatcc agaacgtcac ccagaatgac acaggattct
                                                                        300
                                                                        360
ataccetaca agteataaag teagatettg tgaatgaaga ageaacegga eagtteeatg
                                                                        413
tatacccgga gctgcccaag ccctccatct ncagcaacaa ctccaacccc gtg
      <210> 675
      <211> 411
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(411)
      <223> n = A, T, C or G
      <400> 675
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120
agaggatgag gaggaatcct tgaatgaagt aggctatgat gacatcggtg gttgcaggaa
gcagctagct caaataaagg agatggtgga gctgccactg agacatnctg cgctctttaa
                                                                       180
                                                                       240
ggngattggt gtaaagcctc ctcggggaat cttgttgtat gggccttctg ggacagggaa
                                                                       300
gaccetgatt getegagetg tggcaaatga aactggagee ttettette tgatcaatgg
tcctgaaatc attgancaaa ttggctggtg agtctgagag caaccttcgt aaagcctttg
                                                                       360
aggaagctga aaagaatgct nctgctatca tcttcatcga tgaacttgat g
                                                                       411
      <210> 676
      <211> 413
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(413)
      <223> n = A, T, C or G
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ggtgcgagga gccgcggggc tgtgctcggc ggccaagggg acagcgcgtg ggtggccgag
                                                                       120
gatgctgcgg ggcggtagct ccngcgcccc tccttggtga ctgcttgcgc cgngcctcac
                                                                       180
acageegaag gegggetegg egeacagten getgeteege getegegeee ggeggegete
                                                                       240
caggtgctga cagcgcgaga gagcgcnggn cctcaggagc aaggcgaatg tatgacaaca
                                                                       300
tgtccacaat ggtgtacata aaggaagaca agttggagaa gcttacacan gatgaaatta
                                                                       360
ttttctaaga caaaagcnag taaattcang gggcctggga aagctttgaa gaa
                                                                       413
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      <211> 410
      <212> DNA
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agetttgggt etetgeetet tactegteae agtttettee aacettgeea ttgeaataaa
                                                                       120
aaaggaaaag aggcctcctc agacactctc aagaggatgg gggagatgac atcacttggg
                                                                       180
                                                                       240
tacaaactta tgaagaaggt ctcttttatg ctcaaaaaag taagaagcca ttaatggtta
                                                                       300
ttcatcacct ggaggattgt caatactctc aagcactaaa gaaagtattt gcccaaaatg
                                                                       360
aagaaataca agaaatggct cagaataagt tcatcatgct aaaccttatg catgaaacca
                                                                       410
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      <213> Homo sapien
      <400> 678
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- Asn His Gly Pro Gly Met Ala Met Asn Trp Pro Gln Phe Glu Glu Trp 290 295 300
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212

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taagaccagt atagtaaact tagcccacag tggcaaataa tgagtaatat tgtaatatgt
                                                                        120
tccagnggga taccctcctt gtcttgaatt ttggctttga cattctcaat ggtgtcactg
                                                                        180
ggctcgacct caagggtgat ggttttgcca gtgagggtct tcacaaagat ctgcatgttt
                                                                        240
                                                                        279
gegteegeac gaeegeegee accaaccage teggeegee
<210> 700
<211> 340
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(340)
<223> n = A, T, C or G
<400> 700
ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc
                                                                         60
                                                                        120
tatgagtgtg gaatccagaa caaattaagt gttgaccaca gcgacccagt catcctgaat
gtcctctatg gcccagacga ccccaccatt tccccctcat acacctatta ccgnccaggg
                                                                        180
gtgaacctca gcctctcctg ccatgcagcc tctaacccac ctgcacagta ttcttggctg
                                                                        240
attgatggga acatccagca acacacaca gagctcttta tctccaacat cactgagaag
                                                                        300
aacagcggac tctatacctg ccaggccaat aactcagcca
                                                                        340
<210> 701
<211> 277
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A, T, C or G
<400> 701
ccactggctg agntattggc ctggcaggna tagagtccgc tgttcttctc agtgatgttg
                                                                         60
gagataaaga gctcttgtgt gtgttgctgq atgttcccat caatcaqcna aqaatantqt
                                                                        120
gcaggtgggt tagaggctgc atggcaggag aggctgaggt tcacccctgg acggtaatag
                                                                        180
gngtatgagg gggaaatggt ggggtcgtct gggccataga ggacattcag gatgactggg
                                                                        240
                                                                        277
tcgctgtggt caacacttaa tttgttctgg attccac
```

```
<211> 255
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A, T, C or G
<400> 702
ctgcgcgtcg ccaaagtgac aggcggngcg gcctccaagc tntctaagat ccgagtcgtc
                                                                         60
cggaaatcca ttgcccgtgt tctcanagtt attaaccaga ctcagaaaga aaacctcagg
                                                                        120
aaattctaca agggcaagaa gtacaagccc ctggacctgc ggcctaagaa gacacgtgcc
                                                                        180
atgcgccgcc ggctcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcggaag
                                                                        240
gagcggctgt acccg
                                                                        255
<210> 703
<211> 224
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(224)
<223> n = A, T, C or G
<400> 703
cctgtttgga ggngctgctc gaaagggttt gccctgagac tnnaagaaga agctgcggga
                                                                         60
aggacagcag gggncctggg gttttagcnt ctggcccagg agttatgtgt ccataaccaa
                                                                        120
agggagcaca gtctgcaccc agctctcatc ccatcggagc tgctqcqact cccqcaqqnt
                                                                        180
cttccggaac tggtttagct tgcccgcagn atcagnaaag tttg
                                                                        224
<210> 704
<211> 445
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(445)
<223> n = A, T, C or G
<400> 704
aggtaaaaag cagcctgggc aagagaagtg ggtgggttta ggagaatccc tttcgaaaaa
                                                                         60
ttcagagcat tattattaat ccttcttaaa ttaaatgcag ggccaagcat gctgcacgtg
                                                                        120
gaatctggac aattttttga taaactttaa ggctgctaaa taatttacag aaactgtgaa
                                                                        180
tgcattttca ttttacgagg caaaagagaa aatattcaag attgcatagc aattttattt
                                                                        240
tttgaaatgg ntatcctaaa gaatttcctt aaattcagat tttgcaaaat tcctactctc
                                                                        300
caagtcatca agngaacact aaaagcaact ttactcgtga atacagggga ctctttacga
                                                                        360
ggcatgcatt tttcataaat ctaggccaaa gngaactaat tgagatttaa ttctaaattc
                                                                        420
atcctgngat ttctgcatat aatat
                                                                        445
<210> 705
<211> 107
```

```
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(107)
<223> n = A, T, C or G
<400> 705
atcacconat ttaattaaaa atccctggnc tnaggaccta cagcanngta ctgnagaact
                                                                         60
tnagaacctn aattagccat ttgccatctt nagagagtct tnnccat
                                                                         107
<210> 706
<211> 113
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(113)
<223> n = A, T, C or G
<400> 706
aaatagtttc taaaggcaag gncttgctat gttgcttagg ctggttttga aaagtccctt
                                                                         60
ttggggggat gctttcactg cttcacttcc tttctatgac agctnaggga atc
                                                                         113
<210> 707
<211> 283
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(283)
<223> n = A, T, C or G
<400> 707
ctgctccaag gccatcaaga tcttcatggg gaggacggag ctgaagntgg aagacaagca
                                                                          60
ccgtgtggtg atccagcgtg atgagggtca ccacgtggcc tacaccacgc gggaggtggg
                                                                         120
ccagtanctg gnggnggagt ccagcacggg catcatcgnc atctgggaca agaggaccac
                                                                         180
cgtgttcatc aagctggctc cctcctanaa gggcaccgtg ngnggcctgt gtgggnactt
                                                                         240
tgaccaccgc tccaacaacg acttcaccac gcgggnccac atg
                                                                         283
<210> 708
<211> 341
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(341)
<223> n = A, T, C or G
<400> 708
```

```
ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc
                                                                         60
tatgagtgtg gaatccagaa caaattaagt gttgaccaca gcgacccagt catcctgaat
                                                                        120
gtcctctatg gcccagacga ccccaccatt tccccctcat acacctatta ccgtccaggg
                                                                        180
gngaacctca gcctctcctg ccatgcagcc tctaacccac ctgcacagta ttcttggctg
                                                                        240
                                                                        300
attgatggga acatccagca acacacaca gagctcttta tctccaacat cactgagaag
                                                                        341
aacagcggac tctatacctg ccaggccaat aactcagcca g
<210> 709
<211> 376
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(376)
<223> n = A, T, C or G
<400> 709
                                                                         60
ccaagtccag gggcgtggag gccgccggg agcggatgtt caatggtgag aagatcaact
                                                                        120
anaccgaggg tcgagccgtg ctgcacgtgg ctctgcggaa ccggtcaaan acacnnatcc
                                                                        180
tggtagacgg caaggatgtg atgccagagg tcaanaaggt tctgganaag atgaagtctt
                                                                        240
tetgccageg tgtccggage ggngaetgga aggggtanac aggcaagace atcacggaeg
tcatcaacat tggcattggc ggctccgacc tgggacccct catggngact gaagccctta
                                                                        300
                                                                        360
agtcatactc ttcaggaggn ccccgcgnct gggatgnctc caacattgat ggaactcaca
                                                                        376
ttgccaaaac cctggc
<210> 710
<211> 232
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(232)
<223> n = A, T, C or G
<400> 710
                                                                         60
ctgctgtata ttcagcattg tgggaggagc tgtgaaagac anagaacagt anagggtgtg
gnccctgccc tcgagaggnt tanagtctag gtggagaaac gggaancagg acacatgggg
                                                                        120
agccgagaga aaanagtcca ggccagtatg ttacaggagc tggaaggtgt ttggggtcag
                                                                        180
accccaatac tccaagtaca ctaagcactt cagtgcctcc aggggctcaa cg
                                                                        232
<210> 711
<211> 317
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A, T, C or G
<400> 711
                                                                         60
caggtaaaat agatttaatt taggaaagct cattttatat gagtttccaa ctaattatta
```

```
gagtcagaaa caaagaaaat aaaatcagag aaaatcctct gtagaaaaaa tacacaaaga
                                                                        120
acatttctac atgtgaaaaa acagtaaaca gtgttaacat ccaagttatt agtctcaatt
                                                                       180
ccacgtctcc tagtgaacac cactatcaac cttgagatct gatttgntct tgtcattctt
                                                                        240
cactgagtag atgaaatatg ttaaggtgtc tttttcattc actggaatag acctaaagtg
                                                                        300
                                                                        317
gcaaccaact atctcaa
<210> 712
<211> 154
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(154)
<223> n = A, T, C or G
<400> 712
                                                                         60
tntgtagaaa aaatanacaa agaacatttn tanatgtgaa aaaacagtaa acagngttaa
catccaagtt attagtctca attccacgtc tcctagtgaa caccactntc aaccttgaga
                                                                        120
tctgatttgn tcttgtcatt cttcactgag taga
                                                                        154
<210> 713
<211> 177
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(177)
<223> n = A, T, C or G
<400> 713
ccattcagag gtagaagatg gaggggggc agattctggc agggcagcag agggctctat
                                                                         60
gcacgggttt caaacctgtt ttccacactc tgtctttgca gntttggtaa ttctgtggtc
                                                                        120
tatttatana gatattaaaa tottgtttat aaaaaaaaaa aaaaaaaaa aaaaaaa
                                                                        177
<210> 714
<211> 216
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A, T, C or G
<400> 714
ctgtgtttcg gctataaaaa ggcggctgaa agaaggggaa aattanttta gacttaattg
                                                                         60
gaagtttcat atggcacaca ttaccagnag agaaaaagat ataaacggca ataaatatta
                                                                        120
                                                                        180
ggctcgattt gagaaactct ccccacctca atgctttctt ttcccttgct atttaagggt
                                                                        216
ctactttgca acccgtgtgn gtgtttgtgt gtgtgt
<210> 715
<211> 376
```

```
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(376)
<223> n = A, T, C or G
<400> 715
ctgtgcgagt gtaccggatg cttccacctc tcaccaagaa ccagagaaaa gaaagaaagt
                                                                         60
cgaagtccag ccgagatgct aagagcaagg ccaagaggaa gtcatgtggg gattccagcc
                                                                        120
ctgatacctt ctctgatgga ctcagcagct ccactctgcc tgatgaccac agcagctaca
                                                                        180
cagttccagg ctacatgcag gacttggagg nggagcaggc cctgactcca gctacaacag
                                                                        240
atgaggatga ggaagggaaa ttacctgagg acatcatgaa gctcttggag cagncggagt
                                                                        300
ggcagccaac aagcgtggat gggaaggggt acntactcaa tgaacctgga gnccagccca
                                                                        360
cctctgtcta tggaga
                                                                        376
<210> 716
<211> 96
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(96)
<223> n = A, T, C or G
<400> 716
aaacttttta tttgcatatt aaaaaaattg tgcattccaa taattaaaat catttgaana
                                                                         60
aaaaaaaat ggcnctntga ttaaactgca ttacag
                                                                         96
<210> 717
<211> 366
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A, T, C or G
<400> 717
gatggaaagg atacagatga catcaagatc cccatgctgt tcttattcag caaagaagga
                                                                         60
agtatcatac tggatgccat ccgggaatat gaggaggtag aagngctcct ctctgataaa
                                                                        120
gcaaaagatc gagatcctga aatggaaaat gaagaacaac catcctctga aaatgattct
                                                                        180
cagaatcaga gtggtgaaca gatttcatca agttctcagg aggntgattt ggntgatcaa
                                                                        240
gagtettetg aggaaaatte tetaaattet cacceagaat cattatetet ageagatatg
                                                                        300
gacaatgctg caagcatttc cccttctgaa cagacttcta atnccacaga aaaccatgag
                                                                        360
actaca
                                                                        366
<210> 718
<211> 200
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc feature
<222> (1)...(200)
<223> n = A, T, C or G
<400> 718
aaacatctca catatanaaa ataggtacaa tttaattttt ctgcttgccc aagaaacaaa
                                                                          60
gcttctgtgg aaccatggaa gaagatgaaa atgagactgg caaagaacaa atgctgaatc
                                                                         120
tgaagaagat ttgggcaaat aatctgcata cttttaattg ggaataagat ggaaaatatg
                                                                         180
aatgctaaat caaatttttt
                                                                         200
<210> 719
<211> 336
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A, T, C or G
<400> 719
ctgtctcaca ctttgcaagc tgtgagagac acatcagagc cctgggcact gtcactgctt
                                                                         60
gcagcctgag ngtaactccc tccttttcta tctgagctct tcctcctcca catcacggca
                                                                         120
gcgaccacag ctccagtgat cacagctcca aggagaacca ggccagcaat gatgcccacg
                                                                        180
atggggatgg tgggctggga agacagctcc catctcaggg tgaggggctt gggcagaccc
                                                                        240
teatgetgea catggeaggn gtatetetge teeteteeag aaggeaceae caeageegee
                                                                        300
cacttctgga aggntccatc cccttgcagg ccttgg
                                                                        336
<210> 720
<211> 167
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(167)
<223> n = A, T, C or G
<400> 720
ggagagtgct agtgaggcgg ccaagaagta natggaggag aatgannagc tcaagaaggg
                                                                         60
agctgctgtt gacggaggca agttggatgt cgggaatgct gaggtgaagt tggaggaaga
                                                                        120
gaacaggagc ctgaaggctg acctgcagaa gctaaaggac gagctgg
                                                                        167
<210> 721
<211> 134
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(134)
<223> n = A, T, C or G
```

```
<400> 721
cctagtatga ggagcgttat ggagtggaag tgaaatcana tggctaggcc ggaggncatt
                                                                         60
aggagggctg agagggcccc tgttaggggt catgggctgg gntttacgtg cgtgaggagg
                                                                        120
ggcggagctt gcag
                                                                        134
<210> 722
<211> 353
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(353)
<223> n = A, T, C or G
<400> 722
aaaaatatat acaactatga tgttcaaata tgtattctga gccattatgt tcaaacataa
                                                                         60
atatctggga aattcaaact gctgcaacaa gttaggaaag gattaaggaa aaatgatgag
                                                                        120
ctacaaatta tgtagttgga ggaagaaaaa aatgttactt agcatttatg tctggatagg
                                                                        180
tatgtatttt ctaatttaca tacacatatc cagntgagta tagacaacca tcaaaatgta
                                                                        240
accagttaca cagagactag actaagccaa cactattttc tataacaggn aacagtagng
                                                                        300
atttcaaaaa ttttaatatc tcaatagttt caccaaaaat tatttatggg aat
                                                                        353
<210> 723
<211> 268
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(268)
<223> n = A, T, C or G
<400> 723
ctgagaagag cgccaggaag ccctgggtgc gagagttgat gacgtcgatc tcgtgcaggg
                                                                         60
acacggngtg caccacctcc ttgcgtttct ggagctcccc atctgggcac tgcacgaact
                                                                        120
tggnctggga gcccatagcg tcgtagtcgc gggcgngtgt gaaggagcgg cccaacttgg
                                                                        180
agatettgee egtegeettg tegatggnga teaegteece ggeetggace ttgteettgg
                                                                        240
ncagggactc aatcatcttg ntgcccag
                                                                        268
<210> 724
<211> 344
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(344)
<223> n = A, T, C \text{ or } G
<400> 724
                                                                         60
aaagaatcag caaaatttca aataaaaaat tatgaaaata ttatcctcat tagttcattt
agnoccatga aattaattat tttototgot ogatottggt ggacagttto atgaagotgt
                                                                        120
```

```
cagttagttc attaaagttt tggaaattct cagacagtgc agtggtatca gaaacttgta
                                                                        180
ttcaagagta naggtcagag ncttcttttc ttttcttttt gagatggagt cttgctctgt
                                                                        240
tgccagactg gagtgcagtg gtgcgatctg ggctcactgc aatctccacc tcccgggttc
                                                                        300
aagcgattct cctgcctcag cctcccgagt aactgggact acag
                                                                        344
<210> 725
<211> 345
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A, T, C \text{ or } G
<400> 725
aaacaagaga aagtagacag atacatgttg gnaaatgcta actgtccata ttcacataga
                                                                         60
gacacagtgt actctctgag cccaatatan agagaaagga ggaaaaaagc tagaattcta
                                                                        120
tgcactacta cacaggggcc tagcaccctc cagcttccag cagagcgaag ggagcaggnt
                                                                        180
tttctttttt cccacagagc tcggggggtt gattccatac agnttttgtt cagacaggaa
                                                                        240
gggataaaaa tgaacttcga acagaaaggg gtagagactc ttttcccatt gtattctgct
                                                                        300
caaggnattt ccccccaaat aaattgagaa ccatggagnn gagaa
                                                                        345
<210> 726
<211> 305
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(305)
<223> n = A, T, C or G
<400> 726
                                                                         60
ttgcctgatg tcagagcccc tccacacatg agcctgctcc ctactgccaa caccgtggcc
cagacagaga cgctttccga ggaagaggtg aagctcctgc agtcgctgaa gnaagganag
                                                                        120
                                                                        180
cagatcgtga ggaaaaaggg cgccgaggtt gggggcatgt ctctcttctt accaagctag
                                                                        240
actgggntgc cttttctaac tattccagcc ctacagggcg aggggccata atggagtatc
                                                                        300
ccgccccttt agaccccagg cgctcaccgg cagggcaaga aggngaaatc cagcagccgc
                                                                        305
gccag
<210> 727
<211> 387
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A, T, C or G
<400> 727
ccaacgaggc atcacctctg acggtgtcag tcatcgatga ccggctcaag gagaagatgg
                                                                         60
tggtggagtt ccgccacatg aggaaccatg cctatgagcc actcgccagc ttcctagact
                                                                        120
```

<213> Homo sapien

```
tcattactta nagttacatg atcgacaacg ngatcctqct catcacaggc acgctgcacc
                                                                        180
agggetecat egetgagete gtgeecaagt gecacecact aggeagette gageagatgg
                                                                        240
                                                                        300
aggeogtgaa cattgeteag acacetgetg agetetacaa tgecattetg gtggacaege
ctcttgcggc ttttttccag gactgcattt cagagcagga ccttaacgag atgaacatcg
                                                                        360
                                                                        387
agatcatccg caacaccctc tacaagg
<210> 728
<211> 109
<212> DNA
<213> Homo sapien
<400> 728
ctgactgaca gccagattgc agatgtggct cgcttttgta accgctaccc taatatcgaa
                                                                         60
                                                                        109
ctatcttatg aggtggtaga taaggacagc atccgcagtg gcgggccag
<210> 729
<211> 329
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(329)
<223> n = A, T, C or G
<400> 729
aaagcatagg actatagtca gcatgctaga ctgagaggta aacactgatg caattagaac
                                                                         60
                                                                        120
aggtactgat gctgtcagtg tttaacacta tgtttagctg tgtttatgct ataaaagtgc
aatattagac actagctagt actgctgcct catgtaactc caaagaaaac aggatttcat
                                                                        180
taagtgcatt gaatgtggct atttctctaa gttactcata ttgtcctttg cttgaatgca
                                                                        240
atgccqnqca qatttatqtq qctqctattt ttattttctq nqcattactt taacacctta
                                                                       300
aagngagaag caaacatttc cttcttcag
                                                                       329
<210> 730
<211> 238
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(238)
<223> n = A, T, C or G
<400> 730
                                                                         60
aaaaagtggc agagtgactt aactgatcat gcatgatccc tcatccctga aattgagttt
                                                                       120
atgtagncat tttacttatt ttattcatta gctaactttg tctatgtata tttctagata
ttgattagtg taatcgatta taaaggatat ttatcaaatc cagggattgc attttgaaat
                                                                       180
tataattatt ttctttgctg aagnattcat tgtaaaacat acaaaataaa catatttt
                                                                       238
<210> 731
<211> 297
<212> DNA
```

```
<220>
<221> misc feature
<222> (1)...(297)
<223> n = A, T, C or G
<400> 731
aaactgaatt ttttgacctt ggaaaatatt tttcttactt taccaaggtg aagtttcctt
                                                                         60
aattagacta attattttat ccccatccca qqqtataaac aqqaattqtt ttqataqtqq
                                                                        120
tggagttatt cactgcaaca aagcaacaat gttqtccatg attcaaaatc taagcagttt
                                                                        180
cgattttgcc tgtgaatatg gngtctgtca ttcagggcat agctcactgt aggctagcct
                                                                        240
ctgcttactt aagnetette tetgacatae teaatggaag aatatttaga tttattt
                                                                        297
<210> 732
<211> 370
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(370)
<223> n = A, T, C or G
<400> 732
ctgtcagtct tcctgaaatg aagaaactac accagggctg ctatatcaga gcaacccaa
                                                                         60
ccagcactcc aatcatgatg ccgacagngg ccccaattag aagntcaaaa acaaaaatta
                                                                        120
agttaggtag ncagacatct ataaatacta gtatccgcat gaatgaaaac accctggctt
                                                                        180
tggnatggct acagaaatcc atctggaaat tattcaaaag gacgtggttc agggaaaagg
                                                                        240
gggtaggcag ggcatggggg gaggggaaca cacaaaaccc ccaagcagag gtaaaatgaa
                                                                        300
tattggaaca caccegcage aaacactgta catagacttg aggeagatge ctctaacaca
                                                                        360
acacatatac
                                                                        370
<210> 733
<211> 242
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(242)
<223> n = A, T, C or G
<400> 733
cctcctattt attctagcca cctctagcct agccgtttac tcaatcctct gatcagggtg
                                                                         60
agcatcaaac tcaaactacg ccctgatcgg cgcactgcga gcagtagccc aagcaatctc
                                                                        120
atatgaagnc accctagcca tcattctact atcaacatta ctaataagtg gctcctttaa
                                                                        180
cctctccacc cttatcacaa cacaagaaca cctctgatta ctcctgccat catgaccctt
                                                                        240
                                                                        242
gg
<210> 734
<211> 368
<212> DNA
<213> Homo sapien
<220>
```

```
<221> misc feature
<222> (1)...(368)
<223> n = A, T, C or G
<400> 734
                                                                         60
cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg
                                                                        120
gctgagatag gtgcaatgac ctacaagatt ttgngttttc tagctgtcca ggaaaagcca
                                                                        180
tcttcagnct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa
                                                                        240
aagcaqccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc
                                                                        300
aaactcattq ngacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat
                                                                        360
                                                                        368
ttacatgg
<210> 735
<211> 308
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A, T, C or G
<400> 735
ctgtccaata ggcgtagcta tccggacaga gcacgtttgc agaaggggga ctcttcttcc
                                                                         60
aggtagctga aaggggaaga cctgacgtac tntggttagg ntaggacttg ccctcgtggn
                                                                        120
ggaaactttt cttaaaaagt tataaccaac ttttctatta aaagtgggaa ttaggagaga
                                                                        180
aggtaggggt tgggaatcag agagaatggc tttggnctct tgcttgtggg actagcctgg
                                                                        240
cttqqqacta aatqccctqc tctqaacacq aaqcttaqna taaactqatq qatatcccta
                                                                        300
ccttgaaa
                                                                        308
<210> 736
<211> 354
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(354)
<223> n = A, T, C or G
<400> 736
ccttctgcta cgtagtctac aacagaagga ttcaggcaat tacctctgcc atgcggngga
                                                                         60
acatgggttc atacaaactc ttcttaaggt aaccctggaa gtcattgaca cagagcattt
                                                                        120
ggaagaactt cttcataaag atgatgatgg agatggctct aagaccaaag aaatgtccaa
                                                                        180
                                                                        240
tagcatgaca cctagccaga aggtctggta cagagacttc atgcagctca tcaaccaccc
                                                                        300
caatctcaac acgatggatg agttctgtga acaagtttgg aaaagggacc gaaaacaacg
teggeaaagg ceaggacata ceecagggaa cagtaacaaa tggaagcact taca
                                                                        354
<210> 737
<211> 198
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(198)
<223> n = A, T, C \text{ or } G
<400> 737
ctgccgctgc acacgctcgt tcttctctgc ctcagtgatg cgcttctcct cattgcggnc
                                                                          60
atcocggatg ccctcactag acageteege getgtageee gtgggetetg egeceteate
                                                                         120
ctgcaagete teetggacat ggtageteac eggetegtae aeggggggtg gtggggegg
                                                                         180
gggngctgtc atcaccag
                                                                         198
<210> 738
<211> 228
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(228)
<223> n = A, T, C or G
<400> 738
gtgccatggc acacagcctg ggtgcacacc cagcgncctc tcttgcaggt gcaggtattg
                                                                          60
cagtccacct tgatcttggc gccggaagaa tanaggtcgt tgttatggac gcaagggcat
                                                                         120
tectteteca ecaegeagee acceeggeeg teatecatea geeegteggg geacacacag
                                                                         180
ccactgacac actctgtgtg gnaatagccg gcggccagcg nctggcag
                                                                         228
<210> 739
<211> 378
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(378)
<223> n = A, T, C \text{ or } G
<400> 739
aaaaaataca ggagtcgata gcagcagttg gtgacgagat ggcactcaga aacggcgttg
                                                                          60
acgtaattta ggacgtggaa tcataagcga aacagcacac tgtttgaata aagagcgagt
                                                                         120
cggnatttat atttgntttt cttttgtcat gattatttga tttttaagnt gctccagcta
                                                                         180
                                                                         240
aggcattttt ttgtattagn atttctatta gggaaccttt cttattaggn ggnttgtatt
gtctggnttc taacatgcag gtagctgttt ggcagttaaa cacgtttaga gtaatttgag
                                                                         300
ttacaacgtg tgaaactgag caaaaaagca gngataagnt tgggttacca taccaaatat
                                                                         360
ttgttttccc actggaaa
                                                                         378
<210> 740
<211> 200
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(200)
```

```
<223> n = A, T, C or G
<400> 740
ccacttgagt ggntcctggc tgcttctgtg attgttaggt cttgagagat tatggacccg
                                                                         60
aggeattetg ggtaceceat caattggetg atggnettet atttgggetg egettettet
                                                                        120
aaaaagggga gctcaaaggt cttttttcc cccactgcag agctaaaaaa gtccctgtac
                                                                        180
                                                                        200
gccatcttct cccagtttgg
<210> 741
<211> 273
<212> DNA
<213> Homo sapien
<400> 741
ctgcttggca tcgtaatggg ccggtggcat catgagcccc agaatcagcc ttgccaggtc
                                                                         60
tccagagatc tcagacttca ggtcagtcat taagtcccgg ccaaagtgag acttgaaggt
                                                                        120
ctgccggatc tgctgccgct ggacattgct gcggtgcgtg atgatatcga tgattgtgtc
                                                                        180
                                                                        240
ttegteagte eegagteeet teatggettt eegeageget ttggeatetg egteagggtt
                                                                        273
gaagtcattg gctgggcgca caggtccctt cag
<210> 742
<211> 297
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A, T, C \text{ or } G
<400> 742
                                                                         60
ctgcagttgc tccctttagg gttataaaat aatgacccaa atgttacatg tgttgatatt
ataacttgtc agttactgat gtctgtggna tcctaccctc atctctgaaa gggataatac
                                                                        120
tgaataatta ttagaaaact ataaaacttc acactttgta ccattaaaac ctaaaatttt
                                                                        180
                                                                        240
aatcttgncc ttttttacta tggatcagtc ggcactcggg aacagcagca aggaaaagag
                                                                        297
gcaaatttca ttcacatgtt ctgngntcat acctcttctc tacctaattg ttcattt
<210> 743
<211> 381
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(381)
<223> n = A, T, C or G
<400> 743
ctgcacctcc acctccttga agttgaagat actattgcca tcaaagccag cagccagctc
                                                                         60
                                                                        120
tggacagtat gcctgcaggg aacctccatg ccggctcagt gacacactct ctgcagccag
                                                                        180
ggtaatgaac ttgtcctcag ctacaaaagc tgtgagcttg gctgtgctca cctccagggt
taggtttagc agccgctttg ggggtaatgg ctcaggggca cggccttcta gctcagaagn
                                                                        240
agnteetgaa gnetetagtg caagggatgg tacagtetca ggaaacacag nggetettag
                                                                        300
taggnetegg cactgtagag nggnggnate cecagagetg gngatgattt ggttgteate
                                                                        360
```

```
caggaagcgg caacacgaca g
                                                                        381
<210> 744
<211> 167
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(167)
<223> n = A, T, C or G
<400> 744
cagcgngggg ctcggagagg tgctcggatt ctcgtagctg tgccgggact taaccaccac
                                                                         60
catgtcgagc aaaagaanaa agaccaagac caagaagcgc cctcagcgtg caacatccaa
                                                                        120
tgtgtttgct atgtttgacc agtcacagat tcaggagttc aaagagg
                                                                        167
<210> 745
<211> 96
<212> DNA
<213> Homo sapien
<400> 745
ccacaaactc ctctggctgt actccctcct gcaggagacc ggcctcactg cactcagcag
                                                                         60
gctcttctcc ctgcgattca cttctgggac agtcac
                                                                         96
<210> 746
<211> 391
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(391)
<223> n = A, T, C or G
<400> 746
ccattacgca gccgcttcag caaacagggc tcctcccggc ccgagggcgg gaccacagtg
                                                                         60
gccgtcagca ggctgagatc cgtctctgag atgttgatgg ggatgtcggc agcagagccg
                                                                        120
acctttaggt gggacatacg catggagtcg tcacctgtga cccgggcagt gaaggggctg
                                                                        180
cctgggacgt gctgttcatt gtacttgact agaatgctgt agtcccccgg cagcacaggc
                                                                        240
aagtaggaca cgctgcnatg tcccatcctg gttgtcagtg cagtgttgct tgttcagtat
                                                                        300
ctcaagccca gaaagatgaa ttaatccttg aaggaaatga cattgagctt gtttcaaatt
                                                                        360
cagcggcttt gattcagcaa gccacaacag t
                                                                        391
<210> 747
<211> 408
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(408)
<223> n = A, T, C or G
```

```
<400> 747
                                                                         60
aaagttgttt gtgccttttt atttttgttt ttaatgcttt gatatttcaa tgttagcctc
aatttctgaa naccataggt agaatgtaaa gcttgtctga tcgttcaaag catgaaatgg
                                                                        120
                                                                        180
atacttatat ggaaattctg ctcagataga atgacagtcc gtcaaaacag attgcttgca
                                                                        240
aaggggaggc atcagtgtcc ttggcaggct gatttctagg taggaaatgt ggnagcctca
cttttaatga acaaatggcc tttattaaaa actgagtgac tctatatagc tgatcaqttt
                                                                        300
tttcacctgg aagcatttgt ttctactttg atatgactgt ttttcggaca gtttatttgt
                                                                        360
tgagagngtg accaaaagtt acatgtttgc acctttctag gtgaaaat
                                                                        408
<210> 748
<211> 337
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(337)
<223> n = A, T, C or G
<400> 748
                                                                         60
ggcggagaga ggcgagcacc gggaagggga gcgnggggcc gctggaatgg gtgaatttaa
ggnccatcga gtacgtttct ttaattatgt tccatcagga atccgctgtg tggcttacaa
                                                                        120
                                                                        180
taaccagtca aacagattgg ctgtttcacg aacagatggc actgtggaaa tttataactt
                                                                        240
gtcagcaaac tactttcagg agaaattttt cccaggtcat gagnctcggg ctacagaagc
                                                                        300
tttgtgctgg gcagaaggac agcgactctt tagtgctggg ctcaatggcg agattatgga
                                                                        337
gnatgattta caggcgttaa acatcaagta tgctatg
<210> 749
<211> 261
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(261)
<223> n = A, T, C or G
<400> 749
ccgggaggct ctgattattt acccaccaca ggtaggttgt gttctgaatc tcaggttcac
                                                                         60
aggttaaggc tacagcatcc tcatcctcca cggggttgga gttgttgctg gngatgaagg
                                                                        120
gtttgggtgg ctctgcatag actgtgatcg ncgtgactgt ggncctattg aggccagtgt
                                                                        180
                                                                        240
ctgagttatg ggcttggcac gtataggatc cactattatt cacagngatg ttggggataa
                                                                        261
agagctcttg ggnggattgc t
<210> 750
<211> 150
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(150)
<223> n = A, T, C or G
```

```
<400> 750
aacgctgang acatgacatc caaagattac tactttgact cctacgcaca ctttgnnatc
                                                                         60
cacgaggaga tgctgaagga cgaggtgcgc accctcactt accgcaactc catgtttcat
                                                                        120
aaccggcacc tcttcaagga caaggngnng
                                                                        150
<210> 751
<211> 288
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A, T, C or G
<400> 751
aaaacttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat
                                                                         60
agtctagtaa aattttgaca gtgcatatgt actgttacta aaagctttat atgaaattat
                                                                        120
taatgtgaag nttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat
                                                                        180
ttatgtctac atatttgtgt gtgtgtgtgt gtatatatat gtaatatgca tacacagatg
                                                                        240
catatgtgta tatataatga aatttatgtt gctggnattt tgcatttt
                                                                        288
<210> 752
<211> 248
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(248)
<223> n = A, T, C or G
<400> 752
ctggcactga ggattatatc catataagaa ttcaacagag aaacggcagg aagaccctta
                                                                         60
ctactgtcca agggatcgct gatgattacg ataaaaagaa actagtgaag gcgtttaaga
                                                                        120
aaaagtttgc ctgcaatggt actgtaattg agcatccgga atatggagaa gtaattcagc
                                                                        180
                                                                        240
tacagggnga ccaacgcaag aacatatgcc agttcctcgt agagattgga ctggctaagg
acgatcag
                                                                        248
<210> 753
<211> 346
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1) ... (346)
<223> n = A, T, C or G
<400> 753
ctgctagaaa acagggaaga tattagccaa tatggaattg ccaggttctt cactgaatat
                                                                         60
tttaacagtg tatgccaggg aacacacatt ctctttcgag aattcagctt cgtccaagcc
                                                                        120
accececaca atagggnate atttttaegg geettetgga gatgetteeg aactgtggge
                                                                        180
```

```
240
aaaaatggcg atttgctgac catgaaagaa tatcactgtt tgctqcaatt actgtgtcct
qatttcccgc tggagctcac tcagaaagca gccaggattg tgctcatgga cgatgccatg
                                                                        300
gactgcttga tgnctttttc agatttcctc tttgccttcc agatcc
                                                                        346
<210> 754
<211> 100
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(100)
<223> n = A, T, C or G
<400> 754
gtgccacagg cagccctggg anataggaag ctgggagcaa ggaaagggtc ttagtcactg
                                                                         60
cctcccgaag ntgcttgaaa gcactcggag aattgtgcag
                                                                        100
<210> 755
<211> 405
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(405)
<223> n = A, T, C or G
<400> 755
tgtgggccca cttcccaaat ctctggagga tctgcagctt actcataaca agatcacaaa
                                                                         60
gctgggctct tttgaaggat tggtaaacct gaccttcatc catctccagc acaatcggct
                                                                        120
gaaagaggat gctgtttcag ctgcttttaa aggtcttaaa tcactcgaat accttgactt
                                                                        180
                                                                        240
gagetteaat cagatageea gactgeette tggneteeet gtetetette taacteteta
cttagacaac aataagatca gcaacatccc tgatgagtat ttcaagcgtt ttaatgcatt
                                                                        300
gcagnatctg cgtttatctc acaacgaact ggctgatagt ggaatacctg gaaattcttt
                                                                        360
                                                                        405
caatgngnca tccctggntg agctggatct gtcctataac aagct
<210> 756
<211> 306
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(306)
<223> n = A, T, C or G
<400> 756
                                                                         60
ccttgggaaa ttacctggaa atgcgactga aatcttcctt cctgaggggt ctgggctctt
                                                                        120
ggaaatcaaa ccctctcagg ttgggtggct ggacgattct cctcacactt anaatgggac
                                                                        180
aaggggaacc aggaggccc caaggggatc cctgggntcc acacgaactc ctcctaccct
                                                                        240
cattgngtga cagcagccat gcctcctcct ggggatcagg atctattacc tgtgcctgga
                                                                        300
gaggaggga ctcctcttct caccagctgg nctctggaca catactgtcc aattcccctg
                                                                        306
tggcag
```

```
<210> 757
<211> 321
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(321)
<223> n = A, T, C or G
<400> 757
ctggagggag gntccctggg aggtttttgt ggattccttc tgcagngact cccctggttt
                                                                         60
ctggntctgg ggacccagng tccaggcgca gncttttagc acttctcagt gtagacgttg
                                                                        120
acagggntct tttcccgctt gaatcctgct gagtccccaa atctcttgac ttgtcttggn
                                                                        180
tacagncacc accagagetg etencagntt tgacaaaage agttgetget gaagngateg
                                                                        240
ttttgaatcc tatcatagca ctggcaggtc ccggnaaatt cttacagtca gcaggcggac
                                                                        300
ctcgtgtgag ttgaatattc c
                                                                        321
<210> 758
<211> 278
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A, T, C or G
<400> 758
cgctcggcaa gntctcccag gagaaagcca tgttcagttc gagcgccaag atcntgaagc
                                                                         60
ccaatggcga gaagccggac gagttcgagt ccqqcatctc ccaqqctctt ntqqaqctqq
                                                                        120
agatgaactc ggacctcaag gctcagctna gggagctgaa tattacggca gctaaggaaa
                                                                        180
ttgaagttgg tggtggtcgg aaagctatca taatctttgn tcccgntcct caaacctgcc
                                                                        240
cgggcggccg cttcgagccc tatagtgagg cgnattag
                                                                        278
<210> 759
<211> 401
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(401)
<223> n = A, T, C or G
<400> 759
gcaaactgca aaccatggtg agaaattgac gacttcacac tatggacagc ttttcccaag
                                                                         60
atgtcaaaac aagactcctc atcatgataa ggctcttacc cccttttaat ttqtccttqc
                                                                        120
ttatgcctgc ctctttcgct tggcaggatg atgctgtcat tagtatttca caagaagtag
                                                                        180
cttcagaggg taacttaaca gagtatcaga tctatcttgt caatcccaac gttttacata
                                                                        240
aaataagaga tootttagtg caccoagnga otgacattag cagcatottt aacacagoog
                                                                        300
ngtgttcaaa tgtacagngg nccttttcag agntggactt ctagactcac ctgttctcac
                                                                        360
tccctgnttt aattcaaccc agccatgcaa tgccaaataa t
                                                                        401
```

```
<210> 760
<211> 346
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(346)
<223> n = A, T, C or G
<400> 760
ccqaqqtttq qatcatqqqa qaacaqcaqa aaqqqqttat tqaqqqaacc tacactqttc
                                                                         60
tagctqcacc ccatqccctt ctcaqaqqaa aqcctqqcat tqattaqata ctqqqccaqa
                                                                        120
ctaatactgg cagcagagcc agtgatagta acctgcctac cagaggagcc ttccactggg
                                                                        180
ttggcaattt tgatctgggc cccggacatc tggcggatct cattaatgtt ggcgccttgg
                                                                        240
cgcccgatta tgcagccaat taagttattt ggaatggnga gttcatgggt ggtttgagta
                                                                        300
gatgcatcca aacttgccca atagcctttc acctntggag agacct
                                                                        346
<210> 761
<211> 256
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(256)
<223> n = A, T, C or G
<400> 761
                                                                         60
gagacagact gggtgatgac gctgaatctg cagaggtgct ggtgaccaat tcccctaaag
catctacttg tctcctcaaa ctgtgtaaag tgccctctgt ctgccgcttt cctttaatta
                                                                        120
atacttctgc ttgcttggac atacagtgtc ggagttggnc ctgaaaagtg tgataagact
                                                                        180
                                                                        240
taggntttta cacagnaaga aatgtaccag aactgctgct cagcttcctc acatacattt
                                                                        256
gataggcaaa tctagc
<210> 762
<211> 321
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(321)
<223> n = A, T, C or G
<400> 762
tggactctgg antgatgctg gaagtagata cgaaaatgng aagaacaatg gaacagcaca
                                                                         60
                                                                        120
ctttctggag catatggctt tcaagggcac caagaagaga tcccagttag atctggaact
                                                                        180
tgagattgaa aatatgggtg ctcatctcaa tgcctatacc tncagagagc agactgtata
                                                                        240
ctatgccaaa gcattctcta aagacttgcc aagagctgta gaaattcttg ctgatataat
acaaaacagc acattgggag aagcagagat tgaacgtgag cgtggagtaa tccttagaga
                                                                        300
                                                                        321
gatgcaggaa gttgaaacca a
```

```
<210> 763
<211> 348
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(348)
<223> n = A, T, C or G
<400> 763
tgagaaaaca taaagtaacc agcagatttc aatattaaaa agaagtggtt cntcctaaaa
                                                                         60
aaggtnttag atcatagagt tgggattagg gtaggggata cctattaatc tggnctggaa
                                                                        120
aaaaaqnqtq tqqaqaaqqq qaqntqtatt qntttctcac aaqaqqcaaa cttcaqncaa
                                                                        180
acaatqaaqa qataqtaqqn aqqqaqatqt qtqntaqacc aaaqactttc tqattqctqa
                                                                        240
taataacaaa tttagcagct ntctacaagt caattaaaat accattctct gagacatttt
                                                                        300
cagagaggag ctaactaaca cccacccagg nggaaaaatc attctaca
                                                                        348
<210> 764
<211> 374
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(374)
<223> n = A, T, C or G
<400> 764
agenaagaag gaageteetg eeeeteetaa agetgaagee aaagegaagg etttaaagne
                                                                         60
caagaaggca gcgttgaaag gtgtccacag ccacaaaaag aagaagatcc ncacgtcacc
                                                                        120
cacctteeng engegaaga cactgegact eeggagacag eccaaatate eteggaagag
                                                                        180
cgctcccagg agaaacangc ttgnccacta tgctatcatc aagtttccgc tgaccactga
                                                                        240
gnctgccatg aagaagatag aagacaacaa cacacttgtg ttcattgngg atgttaaagc
                                                                        300
caacaaqcac caqattaaac aggctqnqaa qaaqctqtat qacattqatq tqqccaaqqt
                                                                        360
caacaccctg attc
                                                                        374
<210> 765
<211> 288
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(288)
<223> n = A, T, C or G
<400> 765
                                                                         60
aaatacaata attotgttat tgataaaatt taaggoattt toattgoott ttgcagattt
                                                                        120
actcataact acctaacaag gaaagaaggt ataattattt cagattggat tatttattct
aaaattaaat tottoactaa tttattotaa qatqaattta atagtocato aggaaattgg
                                                                        180
nttttataaa gcttatttta tgggcataaa atacaggaaa aggtaataat aaatgccaaa
                                                                        240
ccgtctcttt actttatgaa gccaaatatt tcctcagact tggttttt
                                                                        288
```

```
<210> 766
<211> 424
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A, T, C or G
<400> 766
ttgtggttgt gcctgagggc tctgcttccg acactcatga acaggctatc ttgcggttgc
                                                                         60
aagtcaccaa tgttctgtct cagcctctga ctcaggccac tgttaaacta gaacatgcta
                                                                        120
aatctgttgc ttccagagcc actgtcctcc agaagacatc cttcacccct gtaggggatg
                                                                        180
tttttgaact aaatttcatg aacgtcaaat tttccagtgg ttattatgac ttccttgtcg
                                                                        240
aagttgaagg tgacaaccgg tatattgcaa ataccgtaga gctcagagtc aagatctcca
                                                                        300
ctgaagttgg catcacaaat gttgatcttt ccaccgngga taaggatcag agcattgcac
                                                                        360
ccaaaactac ccgggtgaca tacgcagcca aagccaaggg cacattcatc gcagacagcc
                                                                        420
                                                                        424
acca
<210> 767
<211> 302
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(302)
<223> n = A, T, C or G
<400> 767
ggctttctca ataagcctca gctttctaag atctaacaag atagccaccg agatccttat
                                                                         60
cgaaactcat tttaggcaaa tatgagtttt attgtccgtt tacttgtttc agagtttgta
                                                                        120
ttgtgattat caattaccac accatctccc atgaagaaag ggaacggtga agtactaagc
                                                                        180
gctagaggaa gcagccaagt cgnttagtgg aagcatgatt ggtgcccagt tagcctctgc
                                                                        240
aggatgtgga aacctccttc caggggaggt tcagtgaatt gtgtaggaga ggttgtctgt
                                                                        300
                                                                        302
gg
<210> 768
<211> 94
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(94)
<223> n = A, T, C or G
<400> 768
ctgatctaaa agaagttact gaggaagatt tgaataatca ctttaagtct ttgggaagca
                                                                         60
gnnatttgaa atnttgaggt gacagncttt taag
                                                                         94
<210> 769
<211> 69
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<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(69)
<223> n = A, T, C or G
<400> 769
ctgcaagacg actccaaccc aacaacaacc agatgngctn cagcccagcc ggncttcagt
                                                                         60
tccatattt
                                                                         69
<210> 770
<211> 222
<212> DNA
<213> Homo sapien
<400> 770
ctgaacgcaa accagccact ttaattaagc taagccctta ctagaccaat gggacttaaa
                                                                         60
cccacaaaca cttagttaac agctaagcac cctaatcaac tggcttcaat ctacttctcc
                                                                        120
cgccgccggg aaaaaaggcg ggagaagccc cggcaggttt gaagctgctt cttcqaattt
                                                                        180
gcaattcaat atgaaaatca cctcggagct ggtaaaaaga gg
                                                                        222
<210> 771
<211> 332
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(332)
<223> n = A, T, C or G
<400> 771
ctgctttccc tcctatggct cccctggaac aggagggaga gccaaggggg cggcccagcc
                                                                         60
tggacagege cegeteetge etgggtgeae acaeggeggg cetgagetee ageatetgag
                                                                        120
tttgggggta tgagaaacag gggagcagaa ggagaagaaa actgcctgtg ctgcaacacg
                                                                        180
tttcctcatt tattttttct ttcttttct tttttcttt ttttggaggg agaggtccct
                                                                        240
gcaaggtccc ttcccgggca gnggagggat ggaaatgccg tcacagtagt agggactgga
                                                                        300
gcgtctacaa ggatggaggg gagctactca gg
                                                                        332
<210> 772
<211> 194
<212> DNA
<213> Homo sapien
<400> 772
aaaagaaaga tcaattatat ccatgcttaa caggatcagc aggagcttta taaatgactt
                                                                         60
tacagagact aataagggat ttgatctttc tttttttgtt atcgaggctt ttgaaatgtg
                                                                        120
gaacttgtgt gttctgcttt atatgttata ttcaatatct tttcagatgc agtctatatt
                                                                        180
ttatgctgag tttt
                                                                        194
<210> 773
<211> 272
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<212> DNA
<213> Homo sapien
<400> 773
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt
                                                                         60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct
                                                                        120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg
                                                                        180
gcatacagga ctaggaagca gataaggaaa atgattatga gggcgtgatc atgaaaggtg
                                                                        240
ataagctctt ctatgatagg ggaagtagcg tc
                                                                        272
<210> 774
<211> 314
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(314)
<223> n = A, T, C or G
<400> 774
gtgtcttgta cagttagnta tattagcagc cctctgagat gncgnatcta tcggaaggat
                                                                         60
ttcaaacacc aattgcttta cctgaacaaa tggnncttac cctttgaaca gcanagngac
                                                                        120
cacgnagaag gaaggaaaag ggnaaaatcg cttnagttaa actgaaatta aatgaacaat
                                                                        180
aaggcaacta tataagtnac ttctagnagc attgcctgag anacaaatta ttgtttgata
                                                                        240
atttncattg tgaatagnaa tccaatagat catattgctt actttgntct ttttatacta
                                                                        300
tagaataata tttt
                                                                        314
<210> 775
<211> 207
<212> DNA
<213> Homo sapien
<400> 775
cetgacagag etcageteae actgggaagt gtggatgeag ggtgeeette ectaeeceag
                                                                         60
tgagaaggaa gatteettae ceatettget teeeceecag ggaagateat catgeacgae
                                                                        120
ccatttgcca tgcggccctt ttttggctac aacttcgggc actacctgga acactggctg
                                                                        180
agcatggaag ggcgcaaggg ggcccag
                                                                        207
<210> 776
<211> 196
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(196)
<223> n = A, T, C or G
<400> 776
gtgaacggag gcactgtggc cgagaagctg gactggnccc gcgagaggct tgagcagcag
                                                                         60
gtacntgtga accaagtgtt tgggcaggat gagatgatcn acgtcatcgg ggtgaccaag
                                                                        120
                                                                        180
ggcaaagnct acaaagggnn caccagtcgt tggcacacca agaagctgcc ccgcaagacc
caccgaggac ctcggc
                                                                        196
```

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<210> 777
<211> 325
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(325)
<223> n = A, T, C or G
<400> 777
aaagttgaac taagattcta tcttggacaa ccagctatca ccaggctcgg taggnttgtc
                                                                         60
                                                                        120
qcctctacct ataaatcttc ccactatttt qctacataga cgggtgtgct cttttagctg
ttcttaggta gctcgtctgg tttcgggggt cttagctttg gctctccttg caaagttatt
                                                                        180
tctagttaat tcattatgca gaaggtatag gggttagncc ttgctatatt atgcttggnt
                                                                        240
ataatttttc atctttccct tgcggtacta tatctattgc gccaggtttc aatttctatc
                                                                        300
                                                                        325
qcctatactt tatttqqqta aatqq
<210> 778
<211> 421
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(421)
<223> n = A, T, C or G
<400> 778
                                                                         60
ccaaaagaag taagacagct tgctgaagat ttcctgaaag actatattca tataaacatt
                                                                        120
ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt gtgtcatgac
qtaqaaaaqq atqaaaaact tattcqncta atqqaaqaqa tcatqaqtqa qaaqqaqaat
                                                                        180
                                                                        240
aaaaccattg nttttgtgga aaccaaaaga agatgtgatg agcttacnca nanaaatgag
                                                                        300
gagagatggg tggcctgcca tgggtatcca tggtgacaan agtcaacaag agcgtgactg
                                                                        360
ggttctaaat gaattcaaac atggaaaagc tcctattctg attgctacag atgtggcctc
cagagngcta gatgtggaag atgngaaatt tgtcatcaat tatgactacc ctaactcctc
                                                                        420
                                                                        421
<210> 779
<211> 330
<212> DNA
<213> Homo sapien
<400> 779
                                                                         60
ctgaactttc cgcttacgct gcccagagct gccaggtgta gactgagaat tcgagttttg
tttcttcctt ggggttgtat ctgcagcctt ttctccctgg gactccctgt ctgctgccaa
                                                                        120
tggagttgaa gaactggaat gatgacacag ctcctcttct cttattttct ttgctggcct
                                                                        180
ctccggtgtc tgggagcggg aggaggcttg ggctagagaa gggtgatgaa ctggggccat
                                                                        240
                                                                        300
ttctcttcca gagctgtgag atgcctcgag tggagctgta ggaactggta atggcattgc
                                                                        330
ggctggagct agggatgcca cttgcgtaag
<210> 780
<211> 279
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<212> DNA <213> Homo sapien					
<400> 780 gagaggtaga gttttttcg tattgtgaggg gtaggagtca gaaaaggttg gggaacagct aatgatgctaa taattaggct gagtcatgtca gtggtagtaa t	ggtagttagt aaataggttg gtgggtggtt	attaggaggg ttgttgattt gtgttgattc	gggttgttag ggttaaaaaa	ggggtcggag tagtagaggg	60 120 180 240 279
<210> 781 <211> 323 <212> DNA <213> Homo sapien					
<400> 781 ttgatcttct gcaggaaggt g tcttaaggaa ctgccgacta g ttctaccaac aaacagtcca t ttcacactgg ttaatctttt t ccagatggtt cttctaacca a ctggaccaaa ggctgaggct t	ggactgatga ttggaaagaa tttaacaatg aactaatttt	tgcattttag aacagtccct agcatgaagg	ctttgagctt ggaattaaca tagcagaagc	ttgggggtta gattagaatg tggtgtgttt	60 120 180 240 300 323
<210> 782 <211> 264 <212> DNA <213> Homo sapien	·				
<220> <221> misc_feature <222> (1)(264) <223> n = A,T,C or G					
<400> 782 ttctagcttt gccctcactc ccctttagnt ggtacctcag tgggccagaga caaggacaac tcttaatggga ccagnggggg aggatgggtg cgcagttctg c	tggggaggct ttaggggaag ataccccaga	tccttaccaa acggggtttt	gaatgagttc cggtggagcc	ctgaaaccca aggggcaaat	60 120 180 240 264
<210> 783 <211> 159 <212> DNA <213> Homo sapien					
<400> 783 ctgtgtgaag gcgacagtgg t tcccttgata atgcagtaag g cagctcgatg ggatccacgt o	ggacccccat	tttacgacac		-	60 120 159
<210> 784 <211> 128 <212> DNA <213> Homo sapien					

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<400> 784
cteggeeete ttacaccatt ttgtttgatt gtctagteee tgtttetttt tetttetaat
                                                                         60
ccttattcat ttaagcaaaa ccatacatta tcttttccag tcctttcttg tattcttact
                                                                        120
                                                                        128
gtttttt
<210> 785
<211> 346
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(346)
<223> n = A,T,C or G
<400> 785
ctgggctgat gctggaactc gtagaagtac acaggggccc gggaacactg aaaatgtgct
                                                                         60
acttggagtg cagggatcac aaacatggag teegecatca teteetggaa etgegettgg
                                                                        120
agggtctggg gatccccatt gnccccaatg tactcctccc tcagcaggtc accaaatgta
                                                                        180
ggaggcaaca tcagcagcgt taacattttc tgcagagcag cctgggaggc ctctctgtcc
                                                                        240
atttccttct gggtatcata gatcctcatg accttgggga tgagccagcc gaattcattg
                                                                        300
ttgttgacac caacaatgct agngnacagn ctgaaagtcg gcagag
                                                                        346
<210> 786
<211> 118
<212> DNA
<213> Homo sapien
<400> 786
ctgcactgat ctgtggggag agttttacag acttttcatt ccagcctcct ccattgacag
                                                                         60
tgaggtcttc attcaatcct gaagaaacct gaagtgtaga atctcctttt ccagattt
                                                                        118
<210> 787
<211> 257
<212> DNA
<213> Homo sapien
<400> 787
cactcattca tcgacctccc caccccatcc aacatctccg catgatgaaa cttcggctca
                                                                         60
ctccttggcg cctgcctgat cctccaaatc accacaggac tattcctagc catgcactac
                                                                        120
tcaccagacg cctcaaccgc cttttcatca atcgcccaca tcactcgaga cgtaaattat
                                                                        180
ggctgaatca tccgctacct tcacgccaat ggcgcctcaa tattctttat ctgcctcttc
                                                                        240
                                                                        257
ctacacatcg ggcgagg
<210> 788
<211> 155
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(155)
<223> n = A, T, C or G
```

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<400> 788
cgcaagagcc tatgnatgtg gnatccagaa ctcngtgngc gcaanccgca gagacccagt
                                                                         60
caccetggnt gtnetetatg ggeeggacac ceceateatt teceececag actegtetta
                                                                        120
                                                                        155
cctttcngga gcgaacctca acctctcctg ccact
<210> 789
<211> 382
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(382)
<223> n = A, T, C or G
<400> 789
                                                                         60
cctaagtaaa tgaagagctg taccatattc atgtattgga agacaacatt gtaaagatga
                                                                        120
catggtttac cagattaatc tataaattca atacaaatcc aatcaaaatt tcaatgctct
tgggtttgtt tgatttataa attgttggtc taattctaga agtaatatgg aggaacagtt
                                                                        180
                                                                        240
ggctaagaat agccaagaca ctncaaggaa gaacaatttt gtggngatac tggagacaga
                                                                        300
ggtgaaattg gttacaatta tgacaaaatg tggaggcatc ttggttttta tcagaccttt
                                                                        360
tcctaaagtt gcaataatca ggactgtact gtactgctac aagattagac aaattgatgt
cagtcagaat agaaatcatc aa
                                                                        382
<210> 790
<211> 273
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(273)
<223> n = A, T, C or G
<400> 790
ggatccgcta cacagtttct gccagtccct gagttgatgc cttttcggct aactcgccag
                                                                         60
nttatcaatc tgatgttacc aatgaaagaa acggtnctta tgtacagnat catggtacac
                                                                        120
gcactccgnn ccttccgctc agaccctggc ctgctcacca acaccatgga tgtgtttgtc
                                                                        180
aagnagccct cctttgattg gaaaaatttt gaacanaaaa tgctgaaaaa aggagggtca
                                                                        240
                                                                        273
tggattcaag aaataaatgt tgctgaaaaa aat
<210> 791
<211> 344
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(344)
<223> n = A, T, C or G
<400> 791
                                                                         60
aaagaatcag caaaatttca aataaaaaat tatgaaaata ttatcctcat tagttcattt
```

```
120
agtcccatga aattaattat tttctctgct tgatcttggn ggacagtttc atgaagctgt
                                                                     180
cagttagttc attaaagttt tggaaattct cagacagtgc agtggtatca gaaacttgta
                                                                     240
ttcaagagta caggtcagag ccttcttttc ttttcttttt gagatggagt cttgctctgt
tgccagactg gagtgcagtg gtgcgatctg ggctcactgc aatctccacc tcccgggttc
                                                                     300
                                                                     344
aagcgattct cctgcctcag cctcccgagt aactgggact acag
<210> 792
<211> 227
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(227)
<223> n = A, T, C or G
<400> 792
                                                                      60
120
aagaagaaga agaagattaa ggaaaagtac atcgatnaag aagagctcaa caaaacaaag
                                                                     180
cccatctgga ccagaaatcc cgacgatatt actaatgagg agtacggaga attctataag
                                                                     227
agcttgacca atgactggga agatcacttg gcagngaagc atttttc
<210> 793
<211> 328
<212> DNA
<213> Homo sapien
<400> 793
                                                                      60
aaacaagtca tttttcttga tcgttgtgga aggtttggag ccttagaggt atgtcagaaa
                                                                     120
aaatatgttg gtattctccc ttgggtaggg ggaaatgacc tttttacaag agagtgaaat
ttaggtcagg gaaaagacca agggccagca ttgctacttt tgtgtgtgtg tgtgggtttt
                                                                     180
                                                                     240
gttttgtttt tttggttggc cggttgtttt cgttgttgtt aacaaaggaa tgagaatatg
                                                                     300
taatacttaa ataaacatga ccacgaagaa tgctgttctg atttactaga gaatgttccc
                                                                     328
aatttgaatt tagggtgatt ttacctgc
<210> 794
<211> 290
<212> DNA
<213> Homo sapien
<400> 794
ccagcgagca catgaagcgg ttcttcatga actttgtggt tgggcaggat ccgggctcag
                                                                      60
                                                                     120
acgccgcctt ccacttcaat ccgcggtttg acggctggga caaggtggtc ttcaacacgt
tgcagggcgg gaagtggggc agcgaggaga ggaagaggag catgcccttc aaaaagggtg
                                                                     180
                                                                     240
ccgcctttga gctggtcttc atagtcctgg ctgagcacta caaggtggtg gtaaatggaa
                                                                     290
atcccttcta tgagtacggg caccggcttc ccctacagat ggtcacccac
<210> 795
<211> 343
<212> DNA
<213> Homo sapien
<400> 795
                                                                      60
aaaatcaaag aaatccttgt tttgaaaatt ggatcttaat ctcaaaattg tagaacttgg
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ctgagaccat tgctttcatt ctgccaaata aatttctgag ggtgtaaatt cttttgaagt ctttaataaa aattccacca atattcattc ttgctgcatt	tcacagtctc ccttgccaag ttttcacttt	actaggaatg ataatcaatg tcttcgactc	tgcaaatcaa gcatttacat acagcaagta	agcatatgtt ttgcttttt	120 180 240 300 343
<210> 796 <211> 354 <212> DNA <213> Homo sapien					
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<210> 797 <211> 309 <212> DNA <213> Homo sapien					
<400> 797 ctgtgccgtc tgcctgagcc cgttttggag tacggggcct tggggtgggt cagagccgag agacgtcccc cacccggaga taaatatctg tggtcccgat ggttccagc	tgagcgggtg ttaagagatt gacgtcgcgc	ggagctgtgt ttctttgttg tgtggcctga	gttgaagtac ctggacccct agtggcgcaa	agagggaggt tcttgaaggt gcttgctttg	60 120 180 240 300 309
<210> 798 <211> 315 <212> DNA <213> Homo sapien					
<400> 798 ccaccagcat tgacgttctt tttagagtct gagtgtatcc caggcgtcag ggtcaatctg gctgtccagg caagattgac ccgccaaact ctgtcccgtc ccaactgcaa agttg	taaacctatc atacttggct agcggtctcc	aggctggagt gctattccga aacttcttgt	tgttcacttt agcgcgtgtt tcactttctg	agccgagaag actgtttcct gtaaatggag	60 120 180 240 300 315
<210> 799 <211> 157 <212> DNA <213> Homo sapien					
<400> 799 ctgtgatttc ctccatagtt ttcttccaaa tacctgtggc gctcatattg gggaaggggc	tcttgtccca	ctgcagccac			60 120 157

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<210> 800
<211> 357
<212> DNA
<213> Homo sapien
<400> 800
aaactcagtg aacccaaacc tattttttc aatctgaata ttgctgcagc aaaaccaact
                                                                      60
ccaccaaaaa gccgggtaac attaacaaaa qaattccctq tatcatctqq atctcaacat
                                                                     120
cggaaaaaag aagcggatag tgtttatgga gaatgggttc ctgtcgagaa aaatggtgaa
                                                                     180
gaaaacaaag atgatgataa tgttttcagc agcaatttgc cctcagagcc tgtggacatc
                                                                     240
                                                                     300
tctacagcaa tgagtgaacg ggcacttgct cagaaaagac tcagtgagaa tgcatttgat
cttgaagcca tgagcatgtt aaatagagct caggaaagga ttgatgcctg ggctcag
                                                                     357
<210> 801
<211> 359
<212> DNA
<213> Homo sapien
<400> 801
cctagggggc atatcaaggg tttaatagac tgggggaatg ggcaacagaa ctggctacct
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tagaggetet ggaatgeeec ceacceatee acceaceaat ggaaggaaag teaggeateg
                                                                     120
cctaaaagga gtggtcccta tctagcccca agtctggagc agaaagggca ggtccattct
                                                                     180
ggcccaagtg acattgttag atcctgtccc ctcccccaat cactgctgct tgccagggtg
                                                                     240
cctcttcaca gttcccatgt ggcagcagta gtggcagagg cagaagtgga cttattgtag
                                                                     300
                                                                     359
attgcagtac agatacatgg acacaatcat ggcagccagc tcgaggcccc caattccag
<210> 802
<211> 207
<212> DNA
<213> Homo sapien
<400> 802
ccaggctcgg gcaccacctc aatcacatcc atgatcaaga tccgccctcg gcacgtgacc
                                                                      60
tecteceet geatgaggea ggteeeggeg geeaegtage etttgaggee egacaeggte
                                                                     120
tectcactge geagagaeae tgtetteatg eaggteaeat geteceaete etgeageteg
                                                                     180
atcctggcat tgggaatagc ctcccag
                                                                     207
<210> 803
<211> 311
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(311)
<223> n = A, T, C or G
<400> 803
cctatttcac tgctgtgtag cctcagtgcc taacatgggt gccaaataaa tattcgtaga
                                                                      60
attacactga attgtaaaaa ccattcgntt ttgnttacaa ttgccaaaaa tctcaaaagg
                                                                     120
180
ggctgggngt gacttagtac ataagtactc aatattatna aaacctcaaa taattgactt
                                                                     240
gattttacac aacatccttc ccttttctac aagntaattt ttttacaaat catttgggtt
                                                                     300
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atctcctaaa t						311
<210> 804 <211> 202 <212> DNA <213> Homo sap	pien					
<400> 804 ctgttcggat ttggctccgat tccagcttct acggcttcctgg gc	gactctca acaggagt	gaccaagagc ctatattctg	atcttcgagc	aagaaactaa	taataataat	60 120 180 202
<210> 805 <211> 238 <212> DNA <213> Homo sap	pien					
<400> 805 ccaaccagtc tgccaacgtcac cgctggctgcaa caaggtcac caaggcgtcgtgca caaggcgtcgtgca caaggcgtcgtgca	gtgtcttc acttgagc	ctgggaccct ttcctcaact	acccctttgg ccttcaagat	catcgatcct gaagatgtcc	atttggagcc gtcatcctgg	60 120 180 238
<210> 806 <211> 325 <212> DNA <213> Homo sap	pien					
<220> <221> misc_fea <222> (1)(3 <223> n = A,T	325)					
<400> 806 cctgaggtct gcccacgccgag gcctactttggng ttt agtccagatt ttt ttttttacac ctt ttttcttttt tta	eggcaaca cacttcg cacagagg cctaattt	aacgacagta ngctctgaat atacatctat ctttatttct	tctcggattc actgaataac ttttatcatt	ctttttttt catgaatgac atttggggtt	taattttta tgaatagttt tgaaaaattt	60 120 180 240 300 325
<210> 807 <211> 289 <212> DNA <213> Homo sap	oien					
<400> 807 cctaaaggga act tagctgcctc aga tatttgttga tgg taggaacttg aat cctgagcctg gct	agaagaga gaagaatt gtgtatg	gaacctgaag caagtttata tttgacaagt	atctgaggca atcaattccc cctgcttggc	agctggacag acttagcacc ctgatgggtg	gagaggtaga tactgtgtgc	60 120 180 240 289

```
<210> 808
<211> 376
<212> DNA
<213> Homo sapien
<400> 808
aaacttaatt aaagagcttg acaagctctg catattcatg tgtcataagc agtatgtgac
                                                                         60
aaaaaaaact gtgcagtatg taccccctca cgaaatttag tttggcaggg aaaacaagat
                                                                        120
gcacatgtta ttataaatta gaaaatggaa gagaagtaga aataaatcca tgagtattat
                                                                        180
atataagtaa cagaacaaaa acaacaggat aatgtatccc ccccaaaggc ccagtagaga
                                                                        240
ccatcaaagc tcattctggg ggtagtcaag gagggagtgg agggagaaaa agaacgcaga
                                                                        300
ccttcaacca ctaatgaaag aactgaaaca tctgtatgta gaaaaaaggt aaaatcaact
                                                                        360
cactatcatc ttcagc
                                                                        376
<210> 809
<211> 243
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(243)
<223> n = A, T, C or G
<400> 809
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                                                                         60
teteacgete ageagtagta acgaaggaat agecacgete agteaggate tteatgaggt
                                                                        120
                                                                        180
agtcagtgag atctcggcca gccagatcca gacgcatgat gncatggggc aagnnatagc
cntcatagat ggngacantg tgggtgacac catctccaga gtccagcacg atgccagttg
                                                                        240
                                                                        243
tgc
<210> 810
<211> 274
<212> DNA
<213> Homo sapien
<400> 810
                                                                         60
aaaaaacacg tttgttatta ccaaaaagag acgtctttag gtaaaaataa taaaaacccc
atgctgcatt gataatgcag atagttctat ttatctggtc aacgggcaaa aagcaagcac
                                                                        120
tttaggtctt cagctccaat cttttgttca tttcttattg ctggaatttc atatttcttc
                                                                        180
ttgttggatg actaaaccgg atgatggtag agatggtaag ccggcattta ctcagccccg
                                                                        240
ccctgctcag cctcgggagc ggacgaattc tcag
                                                                        274
<210> 811
<211> 205
<212> DNA
<213> Homo sapien
<400> 811
                                                                         60
ctggtggaga tcatcaaggt gctgggaaca ccaacccggg aacaaatccg agagatgaac
                                                                        120
cccaactaca cggagttcaa gttccctcag attaaagctc acccctggac aaaggtgttc
aaatetegaa egeegeeaga ggeeategeg etetgeteta geetgetgga gtacaceeca
                                                                        180
                                                                        205
tcctcaaggc tctccccact agagg
```

<210> 816

```
<210> 812
<211> 199
<212> DNA
<213> Homo sapien
<400> 812
aaatattgct gctgctttgt agatgatgag aagaaatgtt aaagtgcttt ctaaaaggaa
                                                                         60
attttttcac ctttggagga gaatatatta gagttgtggg taatttttca cagccaccta
                                                                        120
tqtacatact aattacccat tggatactta tatctaaaag tctcatgctg aagtatagtt
                                                                        180
                                                                        199
tttgggaaag aatgatttt
<210> 813
<211> 334
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A, T, C or G
<400> 813
                                                                         60
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                                                                        120
gctgactgtg gaggacccgg tcactgtgga gtacatcacc cgctacatcg ccagtctgaa
gcagcqttat acqcagagca atgggcgcag gccgtttggc atctctgccc tcatcgtggg
                                                                        180
                                                                        240
tttcgacttt gatggcactc ctaggctcta tcagactgac ccctcgggca cataccatgc
                                                                        300
ctggaaggcc aatgccatag gccggggtgc caagtcagtg cgtgagttcc tggagaagaa
                                                                        334
ctatactgac gaagccattg ctctgcgacc tgcc
<210> 814
<211> 358
<212> DNA
<213> Homo sapien
<400> 814
                                                                         60
ctgaagettg gaacttetgg acaagaaaag geetggttte tggtggeete tatgaateee
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atgtagggtg cagaccgtac tccatccctc cctgtgagca ccacgtcaac ggctcccggc
ccccatgcac gggggaggga gataccccca agtgtagcaa gatctgtgag cctggctaca
                                                                        180
                                                                        240
gcccgaccta caaacaggac aagcactacg gatacaattc ctacagcgtc tccaatagcg
agaaggacat catggccgag atctacaaaa acggccccgt ggagggagct ttctctgtgt
                                                                        300
atteggactt cetgetetac aagteaggag tgtaccaaca egteacegga gagatgat
                                                                        358
<210> 815
<211> 203
<212> DNA
<213> Homo sapien
<400> 815
                                                                         60
ctggaagccg gactcagcca gggtgcgcta ctaccagagc ctgcaggctc atctcaaggt
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ggacgtgtac agacgctccc acaagcctct gcccaagggg accatgatgg agacgctgtc
ccggtacaag ttctacctgg ccttcgagaa ctccttgcac cccgactaca tcaccgagaa
                                                                        180
                                                                        203
gctgtggagg aacgccctgg agg
```

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<211> 92
<212> DNA
<213> Homo sapien
<400> 816
                                                                         60
cggccgcaga agcgagatga cgaagggaac gtcatcgttt ggaaagcgtc gcaataagac
gcacacgttg tgccgccgct gtggctctaa gg
                                                                         92
<210> 817
<211> 367
<212> DNA
<213> Homo sapien
<400> 817
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ttaatacttc cttactttac tatctttctt ctctacctta ctattatttt cttacacatt
                                                                        120
tataagagaa agaatgtatt gaaagaagcc tactctcata atttatggga tggtgcaagg
                                                                        180
                                                                        240
aaaacagtgg caactctgtg ggatggacat gcagccgttt ggcatggtta tgaagttcat
ggaatggaaa aaataccaga agatggacca gcacttataa ttttttatca tggagctatt
                                                                        300
cctatagatt tttactattt catggctaaa atatttatac acaaaggcag aacttgccga
                                                                        360
gtagtag
                                                                        367
<210> 818
<211> 381
<212> DNA
<213> Homo sapien
<400> 818
                                                                         60
aaataaaagt attacgtaac tttgaaattt gtataaaatt aaaagatagt aaaaacaact
attctaacag aattcaaaac ctgttatgct tcagtggaga gattattcaa gataagtccg
                                                                        120
tgggaaattg ggagtacatt tctactggca aagttagtga taactatgca cttctgacaa
                                                                       180
aatgtgaaat ggggggtatg ggcgtgtcat atcatcatgg tgcagatacg tggatgtgtg
                                                                       240
cttccaaaca atggcaacct aactgactgc tggaaccata caaaatacct gaaactactc
                                                                        300
agaaagaagg tgaaaattgc atgcaaaaat tatttgaaaa atattgagct aacacaacat
                                                                        360
                                                                       381
gaatttggaa ttataagtga g
<210> 819
<211> 109
<212> DNA
<213> Homo sapien
<400> 819
ccatggccgc ttccagacca tggaggagaa gaaagcattc atgggaccac tgaagaaaga
                                                                         60
ccgaattgca aaggaagaag gagcttaatg ccaggaacag attttgcag
                                                                        109
<210> 820
<211> 309
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(309)
<223> n = A, T, C or G
```

•					
<400> 820 ctggaaaaac ctttcagcg tgttgaatga aaaagagca agaacggaga cagncatct gaagngacct tgatgatgt cacaatactg gatgctcag ctgnagatt	a tcaggaagca a cagcagggtt t gatccctaga	gtaatgggtc cagaatctcc ggaacatgcc	ggagagtagn catnatgatt cagcctgaga	cctgccaatg ggtgagttga ggagncaaga	60 120 180 240 300 309
<210> 821 <211> 236 <212> DNA <213> Homo sapien					
<400> 821 catccgcttc ctgaatgct gaaagagatc gaagagaga agtggcggaa aagctagaa gaagcaataa atcgtctta	g aaaagaaagc g ctctctcggt	aggatcaggc gaaggaggag	aaaaatgatc accaaggagg	atgccgaaaa atgctgagga	60 120 180 236
<210> 822 <211> 388 <212> DNA <213> Homo sapien					
<220> <221> misc_feature <222> (1)(388) <223> n = A,T,C or G					
<pre><400> 822 gcgaggcaag atggagtta cggcggtctc cgaggctate attagtgggg gaagacaaa ccgtcaccga tgggttgta ggatggaagc atggtgcct tccaacaaca aaaccactta gactggcacc ccagaacaa</pre>	tacgggtttt tatggaaacaa tatactactga cctgaatggca ctgctcgtaa	tttcaggaca atactatgaa aatgaatggc tcgttggctt	aatgatgcga gacaacaagc aaaaacacat cacagtatga	aggttgntac aattttttgg tctgggatgt ctgatgatcc	60 120 180 240 300 360 388
<210> 823 <211> 353 <212> DNA <213> Homo sapien					
<220> <221> misc_feature <222> (1)(353) <223> n = A,T,C or G					
<400> 823 aaaagtttgg atctttttc tgcaaaacga aaaatgaagg gaatattgtg gcttcatate gactttaata agagaaatte	c agctacatgt g tattatttta	agttagtaat tattgtactt	ttctagtttg ttttcattat	aactgtaatt tgatggnttg	60 120 180 240

```
tgtattctag aaaacaatac actaactgaa cagaagtgaa tgcttatata tattatnata
                                                                        300
gccttaaacc tttttcctct aatgccttaa ctgtcaaata attataacct ttt
                                                                        353
<210> 824
<211> 264
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A, T, C or G
<400> 824
ctgggtgcag gcgggctgag tccgaaaaga gagtcagcaa agggagatgg ggtggggccg
                                                                         60
ttttatagga ttagggaagg taatggaaaa ttacagtcaa agggggtttg ttctctggtg
                                                                        120
ggcaggtgtg gatctcacaa agtacactct caagggtggg gagaattaca aaggaccttc
                                                                        180
                                                                        240
ttaagngtgg gggagattac aaagtacatt tatcagttag ggnggngcag gaacaaatca
                                                                        264
caatgttgna atgtcatcag ttaa
<210> 825
<211> 361
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(361)
<223> n = A, T, C or G
<400> 825
aaaatccagt ttgttgttaa caaaacctac tgctgggtgg ttttgaatat attactttta
                                                                         60
ggcatgatet ceceaatgtg tttttactee tttteegget tetaggacag aggtatgtag
                                                                        120
tcaaagaatc ctatggtgga tctgaattgg gtttcagcta ctgtacctgg tccttgtgaa
                                                                        180
ttaaaaaaat aaagtcacaa aaaccatatn acaaaacaaa ttaaaataaa tagacaaaat
                                                                        240
gaagetgtet ceagacette tgeattgaca caeaggtttg aagteaacea aageacteat
                                                                        300
gctaatctgg atgggaacac tagggagaca qaaaccccag tatgaaacca tgtacttgag
                                                                        360
                                                                        361
<210> 826
<211> 195
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A, T, C or G
<400> 826
ccccagaagn gacgcagccc tctatnggcc cnaatcttct tcantcgctc caggtcttca
                                                                         60
eggagettgt tgtecagace attggetagg acetggetgt attttecate etttacatee
                                                                        120
ttctgtctgt tcaagaacca gtctgggatc ttgtactggc gnggattctg cataatggng
                                                                        180
atcacacgtt ccacc
                                                                        195
```



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<210> 827
<211> 227
<212> DNA
<213> Homo sapien
<400> 827
caacggctct tcacagacca cctccttttc taaggaaaat ggctggtatg acgtgatgag
                                                                         60
tgatacatat tttgattcag gttttgtctc taaagtagca cttcttacca cagagatcaa
                                                                        120
ggacttgggt aatattatgc ttttttcctt caatggatta attttcttaa tataaaaaca
                                                                        180
gatgaatacc aggctaagca ctagaaagag tagtaaagca gcaacaa
                                                                        227
<210> 828
<211> 242
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(242)
<223> n = A, T, C or G
<400> 828
atgtccgggg agtcagccag gagcttgggg aagggaagcg cgccccggg gccggtcccg
                                                                         60
gaggntcgat ccgcatctac agcatgaggt tctgcccgtt tgctgagagg acgcgtctag
                                                                        120
tcctgaaggc caagggaatc aggcatgaag tcatcaatat caacctgaaa aataagcctg
                                                                        180
agtggttctt taagaaaaat ccctttggtc tggngccagt tntggaaaac agtcagggtc
                                                                        240
ag
                                                                        242
<210> 829
<211> 374
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(374)
<223> n = A, T, C or G
<400> 829
gaggtcctga aaaggaatac acttccatat catgccatct cttacactgg cattccttgc
                                                                         60
ctatgcatgt gcatggcttg ccctggttta gcttggaaac tgattgaaag tcagagagat
                                                                        120
cactggcttt gagacttgct tgggggactt gggtagcgtc agaggagtct tccttcttac
                                                                        180
tctctgatgg gagccttgga acagaagttc tcaaaggctc aacgactgcc cctgcgtgat
                                                                        240
tagcatcgag agaagtagag ctttctcctg cactgaactc tttagggggat gaaattccca
                                                                        300
gcccactgct gccatcaggt gagtcagtct ggcttttgng cttgagttga ctgctggaag
                                                                        360
aagacgctat tgta
                                                                        374
<210> 830
<211> 325
<212> DNA
<213> Homo sapien
<220>
```

```
<221> misc_feature
<222> (1)...(325)
<223> n = A, T, C or G
<400> 830
gttcaaagca gaaaatcctg agcctctagt gtttggtgtg aagtacaatg caagttcttt
                                                                         60
tgccaagttc acgcttattg tgacagatgt gaatgaagca cctcaattct cccaacacgt
                                                                        120
attccaagcg aaagtcagtg aggatgtagc tataggcact aaagtgggca atgtgactgc
                                                                       180
                                                                        240
caaggatcca gaaggtctgg acataagtta ttcactgagg ggagacacaa gaggttggnt
taaaattgac cacgtgactg gtgagatctt tagtgtggct ccattggaca gagaagccgg
                                                                        300
aagtccatat cgngtacaag tggtg
                                                                        325
<210> 831
<211> 85
<212> DNA
<213> Homo sapien
<400> 831
tggtaccggg cccccccct gagcgatgga gcgtgggtag ggagggtcca cagtgtccac
                                                                         60
tcgccgtgtg cgaaggttga ctcgg
                                                                         85
<210> 832
<211> 202
<212> DNA
<213> Homo sapien
<400> 832
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccaqccgt
                                                                         60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt
                                                                       120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc
                                                                       180
tcctgccgtc gacgcggccg cg
                                                                       202
<210> 833
<211> 503
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(503)
<223> n = A, T, C or G
<400> 833
eeggetggte etgeategee atetgetgge egegeggeae ggeeggttee tggageeage
                                                                        60
aggagtegga ggetgeaggg ettgaaggee tetteacegt geeeteeagg gageetaget
                                                                       120
gccgaagtat teetgetgga aettetggaa gtetteeteg gtgaacaegg tgeeeteage
                                                                       180
ettettette ttggtettgg ceaeaggeeg gteaeaggee ttgeggeeee ggttetggeg
                                                                       240
caaaatctgc tggctcacag actcagccac ggtgcttctc gtcctggtca gaaacttcag
                                                                       300
gtttactctg aggtggtctc gacactctcg cttccggtac tcgtccagtg ccgacttggg
                                                                       360
                                                                       420
cacctttccc ttggccgagt tccgcagttt ctgggcctga attgccttcg tcttccgggg
                                                                       480
ecgtttcace gganececte teggettgge etgacetgga gggteceggg gggeetngga
cgccgccagc agctncaggc ccc
                                                                       503
```

<210> 834

```
<211> 208
<212> DNA
<213> Homo sapien
<400> 834
                                                                         60
atccagagac aatctgccgg ttgtcagagg agaaggccac actcagcaca tccttggtat
                                                                        120
ggcccacaaa tcgcctcgtg gtggtgcccg ttgtgagatc ccagaggcgc agggttccat
cccaggagcc tgagagggca aactggccat ctgaggagat aaccacatca ctaacaaagt
                                                                        180
                                                                        208
gggagtgacc ccgcagagca cgctgtgg
<210> 835
<211> 210
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(210)
<223> n = A, T, C or G
<400> 835
tgatgtgggc gattgatgaa aaggcggttg aggcgtctgg tgagtagtgc atggctagga
                                                                         60
atagtcctgt ggtgatttgg aggatcangc aggcgccaag gagtgagccg aagtttcatc
                                                                        120
atgcggagat gttggatggg gtggggaggt cgatgaatga gtggttaatt aattttatta
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gggggttaat tttgcggtcg acgcggccgc
<210> 836
<211> 426
<212> DNA
<213> Homo sapien
<400> 836
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aagcccagag agaggtaggt gtaggaggcc tgcaggtaca aattgaccag gctgttgacg
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gctgcctcca cgtcggtgga ataattctga cgaatctggg agctcatggt tggttggcaa
                                                                        300
gaaggagcta accacaaaaa cggtgctggc aggtcccaga agcaggagat ggccgagaag
                                                                        360
atggtcccgg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag
                                                                        420
tecceggate tgtteegtee aaacaetgtt gaageaagag acagaeeege ggtegaegeg
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gccgcg
<210> 837
<211> 134
<212> DNA
<213> Homo sapien
<400> 837
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ccagggccgt gggccgaccc cggcggggcc gatccgaggg cctcactaaa ccatccaatc
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ggtagtagcg acgggcggtg tgtacaaagg gcagggactt aatcaacgca agcttatgac
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ccgcacttac tggg
<210> 838
<211> 538
<212> DNA
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<400> 841

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<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(538)
<223> n = A, T, C or G
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ctagtggaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc
                                                                       120
                                                                       180
tggtggccgg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca
                                                                       240
qtqaqqqcqt cctqqqqttc tccqqttctc accacccttq qqccacqccq tctaqtccac
                                                                       300
acctgaggag ttggtcaggt agaaggggg gatgaccgtg cggaagccgt tgaagtgccc
tgccqqqcaq qqqaaqqaqq aqqtqctctt cqaqctqttq qtqtccaqqq cactqqqaat
                                                                       360
cgcagcette cagecetega aateggtgae gtetgeeacg aagageeett egcagageat
                                                                       420
                                                                       480
cagggetttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccan
                                                                       538
gacagggage tegteegagg ageaggagaa geegtagtte cageagetet ggatggtg
<210> 839
<211> 351
<212> DNA
<213> Homo sapien
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aagagggggc gagcggtaga accttgggtc cttgtagccg cggtcccagg gcggaaagat
                                                                       120
                                                                       180
cggccgcgcc agccagggca cgaagtgcat cttccccgca aaggtgatgg gctccagtcc
                                                                       240
agggateteg taccecetat ceaggggagg aggeteegae tteegegtgg agegeaegee
ceactcatac geceegegte teggggeece gaageceeca aggeegaget geeeggagee
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agctagegee egecttgegg geeeggaege caatgecata eegatetgat a
                                                                       351
<210> 840
<211> 574
<212> DNA
<213> Homo sapien
<400> 840
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ccgtgctctg cgtgacgcag tccatccaca gccccttgta catggcctgg gccgtgatga
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tgttgtcacc cgcataggag ctcatctgcc actgcgggat ggcggtgcag gccaccagac
                                                                       180
ccacccagcc cagcagggcc atggagaagc ccagcaactg caggcccgaa ttggccattt
                                                                       240
                                                                       300
ccgccctcag aaaacactgg gggcgccggg cgggagaccc tacagtaaaa caaacgacac
                                                                       360
ttggggggca qcccacaaa agaaaacttg aggtggagtt ttccggtcac ccaaagagac
aaaaagggtt tgggccaggt gaatgcaaat cttgtcacca aactacacac aaatcgaccc
                                                                       420
ctccagtgaa gcgatggcct cgcggcacag ggagtaggat acgccgggag ggtggttcca
                                                                       480
                                                                       540
gacaaaattg gtggtccccg aaggccaggc ggttccctcc ggcgctctcg gcgaccctag
gcaaacaaaa ggtggagggg ccgtctgggc gcgt
                                                                       574
<210> 841
<211> 195
<212> DNA
<213> Homo sapien
```

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<210> 842 <211> 207 <212> DNA <213> Homo sapien					
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<210> 843 <211> 62 <212> DNA <213> Homo sapien					
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<210> 844 <211> 118 <212> DNA <213> Homo sapien					
<400> 844 ttgggtacac tccctggtac	caddccccc	cgatccggct	gccagccctg	aggccaagca	60
cggctggaga cccacgacct					118
<210> 845 <211> 99 <212> DNA <213> Homo sapien	·				
<400> 845					60
gtacactccc ctggtaccgg gacactgtgg acceteceta			accttcgcac	acggcgagtg	60 99
<210> 846 <211> 559 <212> DNA <213> Homo sapien					
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tccctcacaa ggtaggccac aaattcttgg tggtgccctc acatctgggg tcttcaggca
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ccagccatgc ctgccgagga gtgctgtcag gacagaccat gtccgtgcta ggcccaggca
                                                                       180
                                                                       240
cagoccaacc actoctcate caagtototo ccaggtttot ggtoccgatg ggcaaggatg
accectecag tggetggtac eccaccatee cactacecet cacatgetet cactetecat
                                                                        300
caggicccca atcctggctt ccctcttcac gaactctcaa agaaaaggaa ggataaaacc
                                                                       360
                                                                       420
taaataaacc agacagaagc agctctggaa caaaaagtac aaaaagacag ccagaggtgt
gcggagaggg tgaggtggcc gcgtggacgt gggtagataa tcgcatgcag cactggaact
                                                                       480
cctgatgagg ggtggggtcc ccacttctcc tcaaggtttg agggattggg gggaggggt
                                                                       540
                                                                       559
cagctgactc ananaagta
<210> 847
<211> 430
<212> DNA
<213> Homo sapien
<400> 847
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gccagttcgc ggaagaagtg gctcacgcct tccagagcca catcatcgcg gtcgaaatag
                                                                       120
aagcccagag agaggtaggt gtaggaggcc tgcaggtaca aattgaccag gctgttgacg
                                                                       180
gctgcctcca cgtcggtgga ataattctga cgaatctggg agctcatggt tggttggcaa
                                                                       240
                                                                       300
gaaggagcta accacaaaaa cggtgctggc aggtcccaga agcaggagat ggccgagaag
                                                                       360
atggtcccgg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag
tecceggate tgtteegtee aaacaetgtt gaageaagag acagaeeege gggaegtega
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                                                                       430
cgcggccgcg
<210> 848
<211> 546
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(546)
<223> n = A, T, C or G
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taggaggagt tggcggaagc acttggaact cctttataag tgtcagctgt gagattttaa
                                                                       120
                                                                       180
tttgatttga aaatgagtaa gtgcanaaag acaccagttc ancagctagc aagtcccgcg
tcattcagcc cagatattct tgctgacatt tttgaactct ttgccaagaa cttttcttat
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ggcaagccac ttaataatga gtggcagtta ccagatccca gtgagatttt cacctgtgac
                                                                       300
cacactgaat ttaatgcatt tottgatttg aagaactccc taaatgaagt aaaaaaccta
                                                                       360
ctgagtgata agaaactgga tgagtggcat gagcacactg ctttcactaa taaagcgggg
                                                                       420
aaaatcattt ctcatgttag aaaatctgtg aatgctgaac tttgtactca agcatggtgt
                                                                       480
aagttccatg agattttgtg cagctttcca cttattccac aggaagcttt tcagaatgga
                                                                       540
aaactg
                                                                       546
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260

<211> 196 <212> DNA <213> Homo	sapien					
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<210> 850 <211> 543 <212> DNA <213> Homo	sapien					
aagaaccggg aacaacaagt caggcaagca gaaatagtga actaacacac tcatctggtt aataagtacc	agagcaaaca gatctttggc actatacaaa aagcctgagt agcgatgggt ctggctttgg aaaaaggaaa	acatccggca tgattttct atagattcat tatgctgagg gtaaaggacc gggaaggaag gaaaaaataa cactgccctc ttactctctt	tatttcctct actttaaagg gccttgaaaa aacttaagtt gatgttcagg ggtttcatgt tcattttgcc	aagtaatctt cattaatatt taatcatcct gtacacattc caaggttctt gctgggaaat tagtaggaac	tctttagtaa gcatttatat cattttaaag gatgttggga actcctttac acttagcagt ttactgtggt	60 120 180 240 300 360 420 480 540 543
<210> 851 <211> 190 <212> DNA <213> Homo	sapien					
tgtggccctt	gagggtgcca	gggaactgcg cgaagggtca atggcactgg	tctgctcagt	catggcggcg	gcgagagcgt	60 120 180 190
<210> 852 <211> 407 <212> DNA <213> Homo	sapien					
<220> <221> misc_ <222> (1) <223> n = F	. (407)					
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ctcacccgcc gggagaccac aaaaaaaatc cagctggggt				aaattggaaa	360 407
<210> 853 <211> 626 <212> DNA <213> Homo sapien					
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<210> 854 <211> 218 <212> DNA <213> Homo sapien					
<400> 854 atgacggctg cccgaagccc accagtgtaa gaactactac ataagaagca gtggataaat gtgggaagcc caagaatccg	aaactgcgca aaggctgttg	cagaaggaga gagataaact	tggagtatac	accttaaatg	60 120 180 218
<210> 855 <211> 50 <212> DNA <213> Homo sapien					
<400> 855 gaggaacgaa gaataaagga	gattgtgaag	aaacattctc	agtttattgg		50
<210> 856 <211> 116 <212> DNA <213> Homo sapien					
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<210> 857 <211> 402 <212> DNA <213> Homo sapien					

<212> DNA

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gttccactct tacacggcag ccacatagtg ttcttccatc tagctctcgg actgcatcag
                                                                       120
ctgcatctcg gggatcttca aattcaacaa aagcaaagcc gggtgggttt ctagcaaccc
                                                                       180
                                                                       240
acacacttcg gagtggtcca tagtagccaa aagcccgttc caattccgtc ttgttgccat
                                                                       300
tgtttccaag attgcctaca taaaccttac agtccaatgg acaggaatca cgatgcattt
                                                                       360
cgagatctag ggttaaaaaa tgcggcggct caaatccaca cgctccgatg agtcttcccg
                                                                       402
ctttcctccg gcccaacacc aaccaacgtc gacgcggccg cg
<210> 858
<211> 172
<212> DNA
<213> Homo sapien
<400> 858
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acattttatg acctctccca ataggggcag aggtgagcac ccctggtgaa aagttaagac
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tcagtgagta taaatacgcc aagaagagct gtggcttctt tcactggtgt cctcagaaag
                                                                       172
gctgtgagca gtgttggtgg catacctgtc acagcatcta gcaaagcacc tg
<210> 859
<211> 196
<212> DNA
<213> Homo sapien
<400> 859
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                                                                        60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt
                                                                       120
                                                                       180
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc
                                                                       196
tcctgccgcc ggtcga
<210> 860
<211> 538
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(538)
<223> n = A, T, C or G
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ctagtggaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc
                                                                       120
tggtggccgg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca
                                                                       180
gtgagggcgt cetggggttc teeggttete accaecettg ggccaegeeg tetagtecae
                                                                       240
acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtgccc
                                                                       300
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat
                                                                       360
                                                                       420
cgcagccttc cagccctcga aatcggtgac gtctgccacg aagagccctt cgcagagcat
cagggetttg ttttcgtagg caatggtgcg atctgagccg ccagacttgg tgaggcccan
                                                                       480
                                                                       538
gacagggage tegteegagg ageaggagaa geegtagtte cageagetet ggatggtg
<210> 861
<211> 204
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<213> Homo	sapien					
tgtggccctt gtgtcgctgc	gagggtgcca	gggaactgcg cgaagggtca atggcactgg cgcg	tctgctcagt	catggcggcg	acgagagcgt	60 120 180 204
<210> 862 <211> 217 <212> DNA <213> Homo	sapien					
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<210> 863 <211> 192 <212> DNA <213> Homo	sapien					
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<210> 864 <211> 147 <212> DNA <213> Homo	sapien					
ggctgcatcc		cccgctcccg ggatgccatc caaagcg				60 120 147
<210> 865 <211> 446 <212> DNA <213> Homo	sapien				·	
ctgctccggg ccccaggggc actgaaaggc cccaccctgg gcctggaggg agaagcaggg	cccaacacca tgccagagcc agggctctcg cctaggtgct tggggtgctc	agctgtgagg gccctggcca ctgtgtgcct ctgagtgcac gagtgcagct ggggatgcag ggtggagcca ggggtg	ggctctcccc tgccgcattc ctggggcttc gctgcagaca gcaggggcag	tcccagggc ccctgatgca ctgagcccat gccctccct gggctccaga	agcgcccagt gcttttggca ctgcggcggc ccttagtgga gccacaggtc	60 120 180 240 300 360 420 446

```
<210> 866
<211> 87
<212> DNA
<213> Homo sapien
<400> 866
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gagttcaacg gcacccaggc agtgagg
                                                                         87
<210> 867
<211> 123
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(123)
<223> n = A, T, C or G
<400> 867
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                                                                         60
aatatcatac tgcacctgaa atgctgcagc aggggttttt gtttgcttgt ttttgtcctt
                                                                        120
                                                                        123
cag
<210> 868
<211> 634
<212> DNA
<213> Homo sapien
<400> 868
                                                                         60
caggetgegg taggtggeaa teteetgete cageegegae ttgatgteea tgageegetg
gtactcctga ttctgccgct cactatcagc tcgcacatcg cccagctggg cttcaatacc
                                                                        120
gctgatcage gcctggatat gcgccagctg ggctccaaag cgcgcctccg tttctgccag
                                                                        180
                                                                        240
tgtgtcttcc aaggcagctt tcatgctcag ctgtgactgc agctcaatct caagaccctg
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aagggtgcgc cgcaggtcag taacctcgga cctgctcatc tggagctgct ccgtgtggcc
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agcgacctcc cggttcaatt cttcagtccg gctggtgaac caggcttcag catccttccg
gttctgctcg gccatgacct catattggct tcgcatgtca ctcaggatct tggcgagatc
                                                                        420
ggtgcccgga gcggaatcca cctccacact gacctggcct cccacttggc ccctcagcgt
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actgatttcc tcctcatggt tcttcttcag gtaggccagc tcttccttca ggccttcgat
                                                                        540
ctgcatctcc aggtcggtcc tggccagggt cagctcatcc agcaccctgc gcaggccgtt
                                                                        600
                                                                        634
gatgtcggcc tccacgctca tgcgcagagc ctgt
<210> 869
<211> 197
<212> DNA
<213> Homo sapien
<400> 869
                                                                         60
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tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt
                                                                        120
                                                                        180
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc
                                                                        197
tcctgccgcc gtcgacg
```

```
<210> 870
<211> 579
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(579)
<223> n = A, T, C or G
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                                                                         60
tttaagacat tgcattttcc acttacaata cagtgtttat aaagtgcaat gttatttcct
                                                                       120
teceetgtge atatgtteea tatteaagta ttganaatge eeagtaactt aetatageag
                                                                       180
cttaactttt taaaactgcc acagaatttg ctacnaattt aggnccttca aatgttttaa
                                                                       240
                                                                       300
atgtgnggaa caatgctaca tntacacttg gntggcttaa tcaacctntt caatgggggg
ccctgaggaa geneenceag agggaggage tecaccacca ggaaateece caggeattee
                                                                       360
tectggcatg cetectgcae tntggtacag ettggtgatg atggggttge aaactttete
                                                                       420
cagethttte tgntgatgtt caaattette etteteagea gtetgattnt tateaageea
                                                                       480
gnngataatt tcattacact tgtccanaat cttctgtntg ncctcatcgn taatcttgcc
                                                                       540
ttgaagtttc tcatcttcaa cagntgcttt catgttgaa
                                                                       579
<210> 871
<211> 518
<212> DNA
<213> Homo sapien
<400> 871
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                                                                       120
ggatgagttt ggagcggtac tccttcagcc gctgcacgtt ggcctgcagg gactccgtgg
                                                                       180
                                                                       240
acttgttccg cctcctcgga tccacaqaaa tgccgatqqt ccqqqccacc ttcttqtqaa
tgccggccac cctgagctcc tccaggctga agccgcggcc ggcgcgcacc ttcgtgtggt
                                                                       300
accgaaccgt ggggcagcgc acgatgggcc ggatgggacc cgacgcgggg cgcggggcga
                                                                       360
tgcggcgcgc cttggcttgc cgggccttac gtctgcggat cttacgggcc ggctggttga
                                                                       420
accacgtggc cacgcgccgc tgccagtcct tgtggaagtg gggcttcaag accatgccat
                                                                       480
tccggctggg cgccatggct gcctacggcc ctgcggct
                                                                       518
<210> 872
<211> 404
<212> DNA
<213> Homo sapien
<400> 872
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atgcctgaag tgatgaccac gatggcggaa gtgacagaga ggatgttgac cacgcagtac
                                                                       120
tgcagagcca ccgcatcttg aggggtgccc acgtagcgca gcactgtgcc atggaacagg
                                                                       180
                                                                       240
gcagctgtga tgaagctcac atggcccagc accaccagca ccaggcctgt cttcatcagc
                                                                       300
accttccgga agtcgcccac actcaggcct ccgaggcgca gacacatgtc ggctccqcqc
tggtcccgcc cccggcttca gcgcggctcc cgaggctgcg ggccgccggg ggaccctqct
                                                                       360
cccatcccgc tggcccgtcg cccgcgcgcc ccgcaccgtc gcgt
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<210> 873
<211> 175
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<212> DNA <213> Homo	sapien					
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<210> 876 <211> 484 <212> DNA <213> Homo	sapien					
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<210> 877 <211> 558 <212> DNA <213> Homo	sapien					
	tgcttaccac ccttccagta					60 120

gtgagggcgt acctgaggag tgccgggcag cgcagccttc cagggctttg	cctggggttc ttggtcaggt gggaaggagg cagccctcga ttttcgtagg tcgtccgagg	tcattgcaga tccggttctc agaagggcg aggtgctctt aatcggtgac caatggtgcg agcaggagaa	accaccettg gatgacegtg egagetgttg gtetgecaeg atetgageeg	ggccacgccg cggaagccgt gtgtccaggg aagagccctt ccagacttgg	tctagtccac tgaagtgccc cactgggaat cgcagagcat tgaggcccag	180 240 300 360 420 480 540 558
<210> 878 <211> 503 <212> DNA <213> Homo	sapien					
<220> <221> misc <222> (1) <223> n = A	(503)					
ggcgtacagg gaagctcacg ccgcntcttg cgtgtgcagc caggcgcagg gactgcgaac ctggcccagc	atgttctccg gncgacacga cggatgtgct tggtcgtgat gcagccactt tcctggccgc	cgaagtcgat gcttgaggtc ggctgcgcag ccagcagctc gcacctcgtg cgcgctgcgt tctggcgctg gcaggtccag ccg	gcggtgcacc gatctggctt cccgccccgc cagattcacc gttcgcctcc gcggcagcgg	acgcccgcct gcttccgact agcagctcca acgttggggt agcctgcgac cgacacacag	cctcgtgcat cgctgaagtg ggaccaggta gtgactggca tgaggatctt aaaagctgcc	60 120 180 240 300 360 420 480 503
<210> 879 <211> 78 <212> DNA <213> Homo	sapien					
<400> 879 ctgcctcggc cgcgtcgacg		ggggaggcgg	agagctcggg	gcacgcgctg	ccgtccggac	60 78
<210> 880 <211> 211 <212> DNA <213> Homo	sapien		4			
atagtcctgt atgcggagat	ggtgatttgg gttggatggg	aaggcggttg aggatcaggc gtggggaggt acgcggccgc	aggcgccaag cgatgaatga	gagtgagccg	aagtttcatc	60 120 180 211
<210> 881 <211> 373 <212> DNA <213> Homo	sapien					

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<220>
<221> misc_feature
<222> (1)...(373)
<223> n = A, T, C or G
<400> 881
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                                                                         60
                                                                        120
caccegegea gtggaacgag aggcegtnga agagegagac ctgccagggc tgcgagcegc
                                                                        180
gcgcgcacgg ggcgccatag gcttcggggt ccaagcgcgt gtcgttttgg gggagcagcg
                                                                        240
ccgcctctgc ggcccagagt tgcgccatca gcagcggcag cagcttcgcc agagcccggg
                                                                        300
cgccagaggc ggcggagagg tggaggtgcg gagctctcat ggccaggatc tgggagtcgc
                                                                        360
cgataggaag gagggagggg acccagacgt gcctntgccc tgcctgtggt ctgccgcgtc
                                                                        373
cgacacggcc gcg
<210> 882
<211> 300
<212> DNA
<213> Homo sapien
<220> .
<221> misc_feature
<222> (1)...(300)
<223> n = A, T, C or G
<400> 882
                                                                        .60
cggccgcgtt ttttttttt ttttcagaca attcagcctt tattttanaa aataattctg
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tagettecae tttettteat gaaactgagg teaggeaaga aacaaaaate caccaagtee
tctccatcct gccatggcgt cctggcctgt gaggacatgg ggcgcctggg agcgggggg
                                                                        180
gaggetggge ageactggge cagaggegte etggteactg etceacetgg teactgetee
                                                                        240
                                                                        300
acctcatgct gagaggagcc tgtgtgtcaa accccagggg aaaaagggac aggcagatcg
<210> 883
<211> 230
<212> DNA
<213> Homo sapien
<400> 883
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                                                                         60
gggccgctgc gggctccggg agagggtcga aggtgaagat ctcaggaccg gagccccgcc
                                                                        120
ggggtcccgg gatggtggag ggggccgggg tcggggcctg caggatggtc atggtcgggt
                                                                        180
                                                                        230
ggcagctgcg agagtgacac atggtgagcc gagcggtcga cgcggccgcg
<210> 884
<211> 601
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(601)
<223> n = A, T, C or G
<400> 884
```

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gcccccaatt ccagctgcca caccacccac ggtgactgca ttagttcgga tgtcatacaa
                                                                         60
aagctgattg aagcaaccct ctactttttg gtcgtgagcc ttttgcttgg tgcaggtttc
                                                                        120
attggctgtg ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt
                                                                        180
gaagtagggt gagtcctcaa aatccgtata gttggtgaag ccacagcact tgagcccttt
                                                                        240
catggtggtg ttccacactt gagtgaagtc ttcctgggaa ccataatctt tcttgatggc
                                                                        300
                                                                        360
aggcactacc agcaacgtca ggaagtgctc agccattgtg gtgtacacca aggcgaccac
                                                                        420
agcagctgca acctcagcaa tgaagatgag gaggaggatg aagaagaacg tcacgagggc
acacttgctc tcagtcttag caccatagca gcccaggaaa ccaagagcaa agaccacaac
                                                                        480
                                                                        540
gccggctgcg atgaggaagt agcccacgtt gacaaactgc atggcactgg acgacagtgg
cccgaagatc ttcanaaagg atgccccatc gattgacacc cagatgccca ctgccaacag
                                                                        600
                                                                        601
g
<210> 885
<211> 207
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(207)
<223> n = A, T, C or G
<400> 885
caggeggaga ggateatgte egggaactge ggggtagtag egatetgggt tacceageeg
                                                                         60
                                                                        120
ttgtggccct tgagggtgcc annaagggtc atctgctcag ncatggcggc ggcgagagcg
                                                                        180
tgtgtcnntg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct
                                                                        207
ctcctgccgc cggtcgacgc ggccgcg
<210> 886
<211> 442
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(442)
<223> n = A, T, C or G
<400> 886
cancttatan aaanggnaaa ggaaacccca acatgcntgc nctgccttgg tgaccaggga
                                                                         60
                                                                        120
agtcacccca cggctatggg gaaattancc cgaggcttag ctttcattat cactgtctcc
                                                                        180
cnnggtgtgc ttgtcaaaga gatattccgc cnagccanat tcgggcgctc ccatcttgcg
caagttggtc acgtggtcac ccaattcttt gatggctttc acctgctcat tcaggtaatg
                                                                        240
                                                                        300
tgtctcaatg aagtcacaca aatgggggtc atttttgtca gnggccagtt tgtgcagttc
cagtagtgac tgattcacat ttttttccaa atgtaatgca cactccattg cattcagccc
                                                                       360
                                                                        420
gctctcccag tcatcacagt ctggtttntt gatatcctga aggaagattc ggccacctcg
tnggttctgc agcttcatca gt
                                                                        442
<210> 887
<211> 222
<212> DNA
<213> Homo sapien
<400> 887
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60
geteaggete caaageeage aggaaagagg tageteggga egtggageeg eegeeeaggt
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gcgccaggac cacctcggcc gtcaccttag ccaggtggct gcttaggtcc actgtgcgct
teaegteete attgateage ggeggtgeet eggaggagge getgeeegge geeggggeee
                                                                        180
                                                                        222
aagtcccaag caacaggagc agaaacaagc cggcggctgg cg
<210> 888
<211> 89
<212> DNA
<213> Homo sapien
<400> 888
ggtggcgtag cgcccgctta taaagccgca acaccttttg ctgatgggtc aggtagggtc
                                                                         60
ccgacgccaa gaacgccatt acggccgcg
                                                                         89
<210> 889
<211> 451
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(451)
<223> n = A, T, C or G
<400> 889
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                                                                         60
gctgctccgg gcccaacacc agccctggcc aggctctccc ctcccagggg cagcgcccag
                                                                        120
                                                                        180
tececagggg etgecagage cetgtgtgee ttgeegeatt eccetgatge agettttgge
                                                                        240
aactgaaagg cagggctete getgagtgca cetggggett cetgageeca tetgeggegg
ccccaccctg gcctaggtgc tgagtgcagc tgctgcagac agcccctccc tccttagtgg
                                                                        300
agcctggagg gtggggtgct cggggatgca ggcaggggca ggggctccag agccacaggt
                                                                        360
                                                                        420
cagaagcagg gctgggggag gggtggagcc attcagcctc aggcaccctc acagctaggt
gactaggggc agggacagaa tggggtgaat t
                                                                        451
<210> 890
<211> 66
<212> DNA
<213> Homo sapien
<400> 890
tecactagte cagtgtggtg gaattegegg eegegtegae etgetgeete acceacaget
                                                                         60
tttgat
                                                                         66
<210> 891
<211> 599
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(599)
<223> n = A, T, C or G
<400> 891
```

```
60
gggcgtcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctggtggac
                                                                        120
cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat
                                                                        180
ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc
agtgagggcg tcctggggtt ctccggttct caccaccctt gggccacgcc gtctagtcca
                                                                        240
cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaagtgcc
                                                                        300
ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcactgggaa
                                                                        360
                                                                        420
tegeageett ecageeeteg aaateggtga egtetgeeae gaagageeet tegeagagea
                                                                        480
tcagggcttt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca
                                                                        540
ggacagggag ctcgtccgag gagcaggaga agccgtagtt ccagcagctc tggatggtgg
ggaggtagac cagggaccag gacaccetet tgteetggaa gangaagetg gggtgttgt
                                                                        599
<210> 892
<211> 113
<212> DNA
<213> Homo sapien
<400> 892
gtctcaaaca ggaccgcatt tccggcattt cggctggtgt ccgtgttagt ggccacctgg
                                                                         60
gccagcaagt cattcatggt ctcactgctc tcctcgtggt tccggcccag gat
                                                                        113
<210> 893
<211> 208
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A, T, C \text{ or } G
<400> 893
gaggeggaga ggateatgte egggaactge ggggtagtag egatetgggt tacceageeg
                                                                         60
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg
                                                                        120
tgtgtcgctg cagcgacgag gatggcactg gatggcttan agaaactagc accacaacct
                                                                        180
ctcctgccgg tcgacgcggc cgcgaatt
                                                                        208
<210> 894
<211> 67
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(67)
<223> n = A, T, C or G
<400> 894
gcgatgganc gtgggtaggg agggtccaca gtgtccactc gccgtgtgcg aaggttgact
                                                                         60
                                                                         67
cggtagt
<210> 895
<211> 58
<212> DNA
<213> Homo sapien
```

272

```
<220>
<221> misc_feature
<222> (1)...(58)
<223> n = A, T, C or G
<400> 895
58
<210> 896
<211> 177
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(177)
<223> n = A, T, C \text{ or } G
<400> 896
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ctnagtgagt ataaatacgc caanaanagc tgtggcttct ttcactggtg tcctcagaaa
                                                                     120
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt
                                                                     177
<210> 897
<211> 542
<212> DNA
<213> Homo sapien
<400> 897
gctttctcct tcttatagac gttccggacg ggcatgaccg gtccggtcag ctgggtggcc
                                                                      60
                                                                     120
agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag
aggatgagtt tggagcggta ctccttcagc cgctgcacgt tggtctgcag ggactccgtg
                                                                     180
                                                                     240
gacttgttcc gcctcctcgg atccacagaa atgccgatgg tccgggccac cttcttgtga
                                                                     300
atgccggcca ccctgagctc ctccaggctg aagccgcggc cggcgcac cttcgtgtgg
                                                                     360
taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg
                                                                     420
atgcggcgcg cettggcttg cegggcetta egtetgegga tettaeggge eggetggttg
aaccacgtgg ccacgcgccg ctgccagtcc ttgtggaagt ggggcttcaa gaccatgcca
                                                                     480
                                                                     540
ttccggctgg gcgccatggc tgcctacggc cctgcggctc ctggtcgacg cggccgcgaa
                                                                     542
<210> 898
<211> 165
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(165)
<223> n = A, T, C or G
<400> 898
                                                                      60
tanchatctg ggttacccag ccgttgtggc ccttgagggn gccacgaagg gtcatctgct
cagtcatggc ggcggcnana gcgtgtgtng ctgcancgac gaggatggca ctggatggct
                                                                     120
```

tanagaaact	agcaccacaa	cctctcgtcg	acgcggccgc	gaatt		165
<210> 899 <211> 67 <212> DNA <213> Homo	sapien					
<400> 899		gaattcgcgg	ccgcgtcgać	gctgctgcct	cacccacagc	60 67
<210> 900 <211> 77 <212> DNA <213> Homo	sapien					
<400> 900 cttccaggtc gggtttcggt		aggtttccag	gttgcagtcc	ctccagtccc	agagctccca	60 77
<210> 901 <211> 114 <212> DNA <213> Homo	sapien.					
		gggctccggg aagggcgggg				60 114
<210> 902 <211> 64 <212> DNA <213> Homo	sapien					
<400> 902 tacactactc aagt	ctgaggatgc	tactcccgag	cccggagagg	acccacgcgt	gacccgggcc	60 64
<210> 903 <211> 63 <212> DNA <213> Homo	sapien					
<400> 903 tcaaaagctg gat	tgggtgaggc	aggtcgacgc	ggccgcgaat	tccaccacac	tggactagtg	60 63
<210> 904 <211> 142 <212> DNA <213> Homo	sapien					
<400> 904 tcctcagcca	gggagacagg	gaccaggcag	cacaggcctg	ccagcaggag	gatgccccac	60

```
gagacagaag acggcattgt cgattcactg tcccaggtca ggtcgacgcg gccgcgaatt
                                                                        120
ccaccacat ggactagtgg at
                                                                        142
<210> 905
<211> 101
<212> DNA
<213> Homo sapien
<400> 905
tocactagte cagtgtggtg gaattegegg eegegtegac gecaceteeg agageetgga
                                                                         60
tgtgatggcg tcacagaaga gaccctccca gaggcacgga t
                                                                        101
<210> 906
<211> 506
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(506)
<223> n = A, T, C or G
<400> 906
                                                                         60
geggeegeae acaeageeag gegetagget eeetgeggga eetegggaag ggggaagage
gtcaacaatt tacggagggt ccagccgctg ggtcagattg agacaaacca ttgtgtggtt
                                                                        120
gggtttgggt cagcaggctg gagagggttc tgttcttttt gatcattatc gtttgggcc
                                                                        180
                                                                        240
ccaagggagg gtcttgggag ccacctgagc cccaaagctg ggaaattcct canagctgct
                                                                        300
catgtcagga gccttctcac tgctgctggc ggnccagggt gcgtcccgca ccacaaagcc
tntggaaggt gccttggcct cttcgtgtgc tgggggtttc atgtatacct gcagcgcctc
                                                                        360
                                                                        420
actgtccacc acgtcagcta ggtattcctc ctccagattg aggatgtggt cgatggcttc
                                                                        480
ctccacattc tctgggagcc ccgtcacagt gacgcagttg gggtctgggg ctccgctctg
                                                                        506
tgggaagcga atgtccacct tgaatt
<210> 907
<211> 93
<212> DNA
<213> Homo sapien
<400> 907
tecegetgea caagtteaeg tecateegee ggaecatgte ggaggttggg ggetetgtgg
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aggacctgat tgccaaaggc cccgtctcaa agt
                                                                         93
<210> 908
<211> 238
<212> DNA
<213> Homo sapien
<400> 908
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gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca
                                                                       120
ggggccgctg cgggctccgg gagagggtcg aaggtgaaga tctcaggacc ggagccccgc
cggggtcccg ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg
                                                                        180
                                                                        238
tggcagctgc gagagtgaca catggtgagc cgagcggagg tcgacgcggc cgcgaatt
```

```
<211> 190
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(190)
<223> n = A, T, C or G
<400> 909
                                                                         60
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cctagtggaa gccttccagt aatttcttga anctgancgc tcaggtgagt agggcgacat
                                                                        180
ctggnggccg gntgttnaan gtcattgcnn anaggaagga agccgaggag gggancctgc
                                                                        190
ngtgagggcg
<210> 910
<211> 93
<212> DNA
<213> Homo sapien
<400> 910
tecegetgea caagtteaeg tecateegee ggaceatgte ggaggttggg ggetetgtgg
                                                                         60
                                                                         93
aggacctgat tgccaaaggc cccgtctcaa agt
<210> 911
<211> 261
<212> DNA
<213> Homo sapien
<400> 911
                                                                         60
gggtccgtca gggctgaaga cctgcccagg cacacaactc accacggccg gtagcccatt
ctcgcaggtg acattettca tggggtccag tgacacetgg gggcccaget tgcagetgga
                                                                        120
                                                                        180
gatgtgggcc tctgtgccgg tgcagtccat ggagaatggc cagtagcgct gcttcctccg
                                                                        240
tgaggcaaac attttgtaca ctttggtatt gtatgtcctc tccccaggga agccaaacat
                                                                        261
gccgcagacc acgcgggaat t
<210> 912
<211> 67
<212> DNA
<213> Homo sapien
<400> 912
                                                                         60
gcgatggagc gtgggtaggg agggtccaca gtgtccactc gccgtgtgcg aaggttgact
                                                                         67
cggtagt
<210> 913
<211> 545
<212> DNA
<213> Homo sapien
<400> 913
                                                                         60
gettteteet tettatagae gtteeggaeg ggeatgaeeg gteeggteag etgggtggee
                                                                        120
agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag
aggatgagtt tggagcggta ctccttcagc cgctgcacgt tggcctgcag ggactccgtg
                                                                        180
```

```
gacttgttcc gcctcctcgg atccacagaa atgccgatgg tccgggccac cttcttgtga
                                                                        240
atgeeggeea ceetgagete etceaggetg aageegegge eggegegeae ettegtgtgg
                                                                        300
taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg
                                                                        360
atgcggcgcg ccttggcttg ccgggcctta cgtctgcgga tcttacgggc cggctggttg
                                                                        420
aaccacgtgg ccacgegeeg etgecagtee ttgtggaagt ggggetteaa gaccatgeea
                                                                        480
ttccggctgg gcgccatggc tgcctacggc cctgcggctc ctgcgcgtcg acgcggccgc
                                                                        540
gaatt
                                                                        545
<210> 914
<211> 295
<212> DNA
<213> Homo sapien
<400> 914
gctcggcatc agaccagttc ctcagcttcc tgaagtaacc atagcaattg gacttgtggt
                                                                        60
aaaaccatcc aggagcacag ctgggtctca tgatgatatc acccaggact cctgttttgg
                                                                       120
ccaggcagct cagcaatagg agcagccgca tgcttctgga agccatcttc ctcctaccct
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gaggatgtag ctagtgcaag gatctcagag accttactag cgcttctttg aaactcctgg
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gttctccttg atctgcaaat ctgtttggca accaaggtcg acgcggccgc gaatt
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ctgcagagec accgcatett gaggggtgec cacgtagege ageaetgtge catggaacag
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ggcagctgtg atgaagctca catggcccag caccaccagc accaggcctg tcttcatcag
                                                                       240
cacctteegg aagtegeeca cacteaggee teegaggege agacacatgt eggeteegeg
                                                                       300
ctggtcccgc ccccggcttc agcgcggctc ccgaggctgc gggccgccgg gggaccctgc
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teccateceg etgtegaege ggeegegaat t
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<210> 916
<211> 559
<212> DNA
<213> Homo sapien
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<223> n = A, T, C or G
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                                                                       120
ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc
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agtgagggcg teetggggtt eteeggttet caccaceett gggeeaegee gtetagteea
                                                                       240
cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaagtgcc
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ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcactgggaa
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tegeageett ceageeeteg aaateggtga egtetgeeae gaagageeet tegeagagea
                                                                       420
tcagggcttt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca
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ggacagggag ctcgtccgag gagcaggaga agccgtagtt ccagcagctc tggatggngg
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<210> 917 <211> 447 <212> DNA <213> Homo sapien	·
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<210> 919 <211> 139 <212> DNA <213> Homo sapien	
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<210> 920 <211> 576 <212> DNA <213> Homo sapien	

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<223> n = A, T, C or G
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cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa
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gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt
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ctgcaacatg gagactggtg agacctgcgt gtaccccact cagcccagtg tggcccagaa
                                                                       240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat
                                                                        300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat
                                                                        360
                                                                        420
ccagctgacc ttcctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg
                                                                        480
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct
                                                                       540
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgnttca cctacagcgt
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<212> DNA
<213> Homo sapien
<220>
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<222> (1)...(421)
<223> n = A, T, C or G
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caacctcagc agcacaccgc ccgagttgac ctgattggtt ttggacgtgt ggccacagaa
                                                                       180
                                                                       240
ggtgaccact ttgacgccgc tgcggtacag cagcacgcac aggttggctg tatgcgacgc
gtggtagaca aagtagtaga ggccggggac tttgcaggtg aacttgccag tgctcgtgtc
                                                                        300
                                                                        360
ataatctccc tgcgggttgg tgaggaccgc gttgaatctg atcaggctgt tgggtgcagg
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gggctggtgg gtctgccgag tgaccgngaa cactgactgg aatttctnnt tgnatctgnc
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<210> 922
<211> 177
<212> DNA
<213> Homo sapien
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ctcagtgagt ataaatacgc caagaagagc tgtggcttct ttcactggtg tcctcagaaa
                                                                        120
                                                                        177
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt
<210> 923
<211> 133
<212> DNA
<213> Homo sapien
<400> 923
                                                                         60
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	-	gggggccggg catggtgagc		gcaggatggt	catggtcggg	180 216
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<220>	5 .					
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		ttgtcattgc				180
		aaatccgtat				240
		tgagtgaagt				300
		aggaagtgct				360 420
		atgaagatga ncaccatagc				480
		tagcccacgn				540
		gatgccccat				600
ggnctgcacc	acacagaaag	atgagcaaat	tgaagaggat	catcatggt		649
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		gaactgggtc				180
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		gggcgtccac			cgctaagcga	300
	ccgctgctca	gcgtcgacgc	ggccgcgaat	τ		341
<210> 927 <211> 431						
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<222> (1)...(431)
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gaagcccaga gagaggtagg tgtaggaggc ctgcaggtac aaattgacca ggctgttgac
                                                                       180
ggctgcctcc acgtcggtgg aataattctg acgaatctgg gagctcatgg ttggttggca
                                                                       240
agaaggagct aaccacaaaa acggngctgg caggtcccag aagcaggaga tggccganaa
                                                                       300
                                                                       360
gatggtcccg gaggttgcaa gcggagagga aatcggaggg cggtcggagg ctggaagaga
                                                                       420
gtccccggat ctgttccgtc caaacactgt tgaagcaaga gacagacccg cggtcgacgc
                                                                       431
ggccgcgaat t
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<211> 538
<212> DNA
<213> Homo sapien
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                                                                        60
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cccgtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg
                                                                       180
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga
                                                                       240
cccacccage ccagcaggge catggagaag cccagcaact gcaggecega attggecatt
                                                                       300
tecgecetea gaaaacaetg ggggegeegg gegggagaee etacagtaaa acaaacgaea
                                                                       360
cttggggggc agcccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga
                                                                       420
caaaaagggt ttgggccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc
                                                                       480
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga gggtggttcc
                                                                       538
agacaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgacc
<210> 929
<211> 69
<212> DNA
<213> Homo sapien
<400> 929
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cagctggat
                                                                        69
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<211> 544
<212> DNA
<213> Homo sapien
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agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag
                                                                       120
                                                                       180
aggatgagtt tggagcggta ctccttcagc cgctgcacgt tggcctgcag ggactccgtg
                                                                       240
gacttgttcc gcctcctcgg atccacagaa atgccgatgg tccgggccac cttcttgtga
                                                                       300
atgeeggeea ecetgagete etecaggetg aageegegge eggegegeae ettegtgtgg
taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg
                                                                       360
                                                                       420
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		gggtggggga tggtgggccc				240 300
gctcgctggg	gaagcagtga	gcagctgaca	gcacccactg	ctcagacacg	agagagccac	360
		taggtgatgc cgtgcttggg				420 480
		agtaatccaa ttctgggcca				540 596
goodaggood	caggacccc	cccgggcca	cggcccagga	caagggcccc	cggggc	330
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		gggatgtgag		outtoudgog	aggageagag	153
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<210> 936 <211> 155 <212> DNA <213> Homo	sapien					
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<210> 938 <211> 261 <212> DNA <213> Homo	sapien					
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<210> 939 <211> 228 <212> DNA <213> Homo	sapien					
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		gctggacaag gttcgagacc		agcgtgagcg	cggcatcacc	60 97
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		tgatgccgcc gctgggatta				60 120 130
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284

	ggtggtaggg ggtcaaaggg caatgatcca gttggtcccc tggcgccatc	gctggcttgc ccctgggtct actgagctca cagaggccca	gagctgccgg tgaccgtcgt agggcctcct tcagaagagc aagaccagac cgtgagaagt tcc	ccagcagctc ggaaggccat tggaagtgag gcagctcctc	ctgggcaaag gccatccttc gtctcgcagc aagggcacaa	gggctgccct tccagcagct tgggcatgga ttgcagaggg	240 300 360 420 480 540 563
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	<210> 946 <211> 306 <212> DNA <213> Homo	sapien					
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	<210> 947 <211> 71 <212> DNA <213> Homo	sapien					
	<400> 947 ggtccagagc cggtttccag		ccaggttgca	gtccctccag	tcccagagct	cccagggttt	60 71
	<210> 948						

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<213> Homo sapien
<220>
<221> misc_feature
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cccttggagc ggacgtaggg tttggtgtgg ctgtgcgggg ttcctggggc cttgccgaaa
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                                                                        240
tgccggtaca cctctcggcc cttgcgagga ccggagagca ggacagtgcc acagccctta
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ctgcgggccc ggctggtcac gcgcagtgca cataccttca gttngggtac ctcctgaacc
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cgcacatcat cagttatggt ccccacaacc acggccgtct tgttttcccg gccaggaagc
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ttcatcttcc ggatcatccg ggaaagggac agaggcggcc ggttggtgcg actcataaac
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aacctcttca acacaacctg gttgaatgtg gagttggttc ttctggccag aaacctgtat
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                                                                        575
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atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg
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teatecttag ggaagetett cacetteeca egatgeetge tgetgegett eegaggeagg
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aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gcca
                                                                        294
<210> 950
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<213> Homo sapien
<220>
<221> misc_feature
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<223> n = A, T, C or G
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cattggctgt gttggtgacg ttgtcattgc aacagaatgg gggaaaggca ctgttctctt
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                                                                        240
tgaagtaggg tgagtcctca aaatccgtat agttggtgaa gccacagcac ttgagccctt
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tcatggtggt gttccacact tgagtgaagt cttcctggga accataatct ttcttgatgg
                                                                        360
caggcactac cagcaacgtc aggaagtgct cagccattgt ggtgtacacc aaggcgacca
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cacacttgct ctcagtctta gcaccatagc agcccaggaa accaagagca aagaccacaa
                                                                        480
                                                                        540
cgccggctgc gatgaggaag tagcccacgt tgacaaactg catggcactg gacgacagtg
gcccgaagat cttcanaaag gatgccccat cgattgacac ccagatgccc actgccaaca
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<210> 953 <211> 275 <212> DNA <213> Homo sapien					
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<210> 954 <211> 189 <212> DNA <213> Homo sapien					
<400> 954	asta		000 000 000	and and	60
ggctcccact tccctgcttc	yaryyagaag	gcgaggtggt	ccagcaggtg	ccgraggtcc	60

ctgacccagc tgaccaccac aggggtagtg gcctcacaga ccgcgaatt					120 180 189
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<210> 957 <211> 62 <212> DNA <213> Homo sapien					
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<210> 958 <211> 199 <212> DNA <213> Homo sapien					
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<210> 959 <211> 212 <212> DNA <213> Homo sapien					
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tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct
                                                                        180
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ctcctgccgc cgcgtcgacg cggccgcgaa tt
<210> 960
<211> 177
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(177)
<223> n = A, T, C or G
<400> 960
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                                                                         60
ctcagtgagt ataaatacnc caagaagagc tgtggcttct ttcactggtg tcctcagaaa
                                                                        120
                                                                        177
ggctgtgagc agtgttggtg gcatacctgt cacagcatct agcaaagcac ctgaatt
<210> 961
<211> 490
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(490)
<223> n = A, T, C or G
<400> 961
                                                                         60
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cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat
                                                                        120
                                                                        180
ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc
                                                                        240
agtgagggcg teetggggtt etneggttet caccaccett gggccacgee gtetagteca
cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaantgcc
                                                                        300
ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcactgggaa
                                                                        360
                                                                        420
tegeageett ceageeeteg aaateggtga egtetgeeac gaagageeet tegeagagea
tcagggcttt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca
                                                                        480
                                                                        490
ggacagggag
<210> 962
<211> 159
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(159)
<223> n = A, T, C or G
<400> 962
                                                                         60
gggtcggccc gggtggttgc ggccacagcg cagcggcgga gagcggcgcc cancatgacg
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gcgatggcgg cgcgcgggcn gnggacagan agaagccggt gtaagctcgc gggttgctcc
                                                                        159
ggagcgggcg ggggccggac gtcgacgcgg ccgcgaatt
```

```
<210> 963
<211> 217
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A, T, C \text{ or } G
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                                                                          60
                                                                         120
ggggccgctg cgggctccnn gagagggtcg aaggtgaaga tctcaggacc ggagccccgc
                                                                        180
cggggtcccg ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg
                                                                        217
tggcagctgc gagagtgaca catggtgagc cgagcgt
<210> 964
<211> 540
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(540)
<223> n = A, T, C or G
<400> 964
                                                                          60
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                                                                        120
cccgtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga
                                                                        180
                                                                        240
eccacceage ccagcaggge catggagaag eccagcaact gcaggeeega attggeeatt
                                                                        300
tecgeeetea gaaaacaetg ggggegeegg gegggagaee etacagtaaa acaaacgaea
cttggggggc agcccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga
                                                                        360
caaaaagggt ttgggccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc
                                                                        420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga gggtggttcc
                                                                        480
aganaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgaccct
                                                                        540
<210> 965
<211> 321
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(321)
<223> n = A, T, C or G
<400> 965
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                                                                          60
acacccgcgc agtggaacga gaggccgttg aagagcgaga cctgccaggg ctgcgagccg
                                                                        120
                                                                        180
cgcgcgcacg gggcgccata ggcttcgggg tccaagcgcg tgtcgttttg ggggagcagc
geogectetg eggeecagag ttgegeeate ageageggea geagettege cagageeegg
                                                                        240
gcgccagagg cggcggagag gtggaggtgc ggagctctca tggccaggat ctgggagtng
                                                                        300
ccgatangaa ggagggaggg g
                                                                        321
```

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<210> 966
<211> 642
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(642)
<223> n = A, T, C or G
<400> 966
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                                                                        60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa
                                                                        120
qaqtqqaqaq tactqqattq accccaacca aqqctqcaac ctqqatqcca tcaaaqtctt
                                                                       180
ctgcaacatg gagactggtg agacctgcgt gtaccccact cagcccagtg tggcccanaa
                                                                       240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat
                                                                        300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat
                                                                        360
ccagctgacc ttcctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg
                                                                        420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct
                                                                       480
ccagggetcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt
                                                                        540
cactgtcgat ggctgcacga gtcacaccgg agcctggggc aagacagtga ttgaatacaa
                                                                        600
aaccaccaag acctcccgcc tgcccatcat cgatgtggcc cc
                                                                        642
<210> 967
<211> 650
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(650)
<223> n = A, T, C or G
<400> 967
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                                                                        60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactgqaa
                                                                       120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt
                                                                       180
ctgcaacatg gagactggtg agacctgcgt gtaccccact cagcccagtg tggcccagaa
                                                                       240
gaactggtac atcagcaaga accccaagga caaqaggcat gtctggttcg qcgaqagcat
                                                                       300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat
                                                                       360
ccagctgacc ttcctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg
                                                                       420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct
                                                                       480
ccagggctcc aacgagatcg agatccgcgc cqagggcaac agccgcttca cctacagcgt
                                                                       540
cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaataca
                                                                       600
aaaccaccaa gaccttccgc ctgcccatca tcgatgtggc ccccttggac
                                                                       650
<210> 968
<211> 629
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
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<222> (1)...(629)
<223> n = A, T, C or G
<400> 968
ggtggacacc accetcaaga gcctgagcca gcagatcgag aacatccgga gcccagaggg
                                                                         60
cagoogcaag aaccoogcoo goacctgoog tgacotcaag atgtgccact ctgactggaa
                                                                        120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt
                                                                        180
ctgcaacatg gagactggtg agacctgcgt gtaccccact cagcccagtg tggcccagaa
                                                                        240
                                                                        300
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat
                                                                        360
ccagctgace ttectgegee tgatgteeae egaggeetee cagaacatea cetaceaetg
                                                                        420
                                                                        480
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct
ccagggetee aacgagateg agateegege egagggeaac ageegettea cetacagegt
                                                                        540
cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaataca
                                                                        600
aaaccaccaa gacctcccgc ctgcccatc
                                                                        629
<210> 969
<211> 222
<212> DNA
<213> Homo sapien
<400> 969
gaatgtcagg ggtgttgggg gctttggctg ggtcctgggt cttcgtgtag agacctggag
                                                                         60
gcgcttggtt cttggggttc tccaggattc cagcctcgta gctgatgtgc atgaggttct
                                                                        120
catecatget ccaegggtte ttgggagtga ccgggatggg aatccegtgt tgetttgegt
                                                                        180
actccatcag gtcattgcgg cccttgaacc ggttgtagaa tt
                                                                        222
<210> 970
<211> 79
<212> DNA
<213> Homo sapien
<400> 970
                                                                         60
gcaggggccg cctggccttg ctccgctcca cgaggaggcc gccaaccgca gggccgcgac
                                                                         79
acggacggga agcaacgga
<210> 971
<211> 111
<212> DNA
<213> Homo sapien
<400> 971
                                                                         60
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ccccattcgt cagccccacg cctcctccag gatccgggcc cagctcgaat t
                                                                        111
<210> 972
<211> 609
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(609)
<223> n = A,T,C or G
```

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                                                                         60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa
                                                                        120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt
                                                                        180
ctgcaacatg gagactggtg agacctgcgt gtaccccact cagcccagtg tggcccagaa
                                                                        240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat
                                                                        300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat
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ccagctgacc ttcctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg
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caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg ccctgctcct
                                                                        480
                                                                        540
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt
                                                                        600
cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaataca
                                                                        609
aaaccacca
<210> 973
<211> 311
<212> DNA
<213> Homo sapien
<400> 973
ggggtttcca cgtagcccac aatgcccaca accaccatgg gtggtgtctc tacaatggtc
                                                                         60
acageeteea ecaceteett ettgtteace ttggateeeg geetgtegae tteeegeaeg
                                                                        120
                                                                        180
atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg
                                                                        240
tcatccttag ggaagctctt caccttccca cgatgcctgc tgctgcgctt ccgaggcagg
aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gcgtcgacgc
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ggccgcgaat t
                                                                        311
<210> 974
<211> 180
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(180)
<223> n = A, T, C or G
<400> 974
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                                                                        60
                                                                        120
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcnagagcg
                                                                        180
tgtgtcnctg cancgacnag gatggcactg gatggcttag anaaactagc accacgtcga
<210> 975
<211> 187
<212> DNA
<213> Homo sapien
<400> 975
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gcaccagccc cggggactat gtgctcagcg tctcagagaa ctcgcgcgtc tcccactaca
                                                                       120
tcatcaacag cagcggcccg cgcccgccgg tgccaccgtc gcccgcccag cctccgcccg
gggtgagccc ctccagactc cgaataggag atcaagagtt tgattcattg cctgctttac
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tggaatt
                                                                       187
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<211> 59 <212> DNA <213> Homo sapien					
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<210> 977 <211> 66 <212> DNA <213> Homo sapien					
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<210> 978 <211> 114 <212> DNA <213> Homo sapien					
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ggagctgatg cgggaacd agaggtggac accttgta					60 114
<210> 979 <211> 177 <212> DNA <213> Homo sapien					
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gacattttat gacctctc ctcagtgagt ataaatac ggctgtgagc agtgttgg	cgc caagaagagc	tgtggcttct	ttcactggtg	tcctcagaaa	60 120 177
<210> 980 <211> 188 <212> DNA <213> Homo sapien					
<220> <221> misc_feature <222> (1)(188) <223> n = A,T,C or	G				
<400> 980					
ggagctgatg cgggaacd agaggtggac accttgta ggaggcaggc gggccgaa cgcgaatt	igg acttctgggt	caccctgatg	gacatggtag	aggctggagt	60 120 180 188
<210> 981 <211> 184 <212> DNA					

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<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(184)
<223> n = A, T, C or G
<400> 981
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                                                                         60
ccccggcggc tttgcactga tgggctgcgg ntgggcacag gccatagtga ggggggcatg
                                                                        120
agageceeag acegggegge tttgeactga tgagetgeag ggeaggtega egeggeegeg
                                                                        180
aatt
                                                                        184
<210> 982
<211> 98
<212> DNA
<213> Homo sapien
<400> 982
tecactagte cagtgtggtg gaattegegg eegegtegae egaaceetga accetaeggt
                                                                         60
cccgacccgc gggcgaggcc gggtacctgg gctgggat
                                                                         98
<210> 983
<211> 425
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(425)
<223> n = A, T, C or G
<400> 983
gccggatatg gtcctgccgg tggcagccta tgggctgatc ctgatggcca tgctgtggcg
                                                                         60
eggeetggee cagggeggga gtgeeggetg gggegegetg etetteaege tetetgatgg
                                                                        120
egtgetggee tgggacacet tegeceagee eetgeeecat geeencetgg tgateatgae
                                                                        180
cacctactat getgeccage tecteateae actgteagee etcaggagee eggtgeceaa
                                                                        240
gactgactga ctagggaget tgaagggeeg gtgtteagge ceteteetee tgeaaggaee
                                                                        300
tgggcctccc agcccagccc agcctgagaa ataccctcag cagcgaagct tcctgacgcc
                                                                        360
tgtctgcagg cgccgctgcc gccgtcgctt ctggctgaag acgtttgagg acgatttgcg
                                                                        420
gaatt
                                                                        425
<210> 984
<211> 148
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(148)
<223> n = A, T, C or G
<400> 984
tectnageca gggagacagg gaccaggeag cacaggeetg ccagcaggag gatgeeccac
                                                                         60
```

```
gagacagaag acggcattgt cgattcactg tcccaggtca gtggtgggtc gacgcggccg
                                                                        120
cgaattccac cacactggac tagtggat
                                                                        148
<210> 985
<211> 461
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A, T, C or G
<400> 985
                                                                         60
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cageegeaag aacceegeee geacetgeeg tgaceteaag atgtgeeact etgactggaa
                                                                        120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt
                                                                        180
ctgcaacatg gagactggtg agacctgcgt gtaccccact cagcccagtg tggcccanaa
                                                                        240
gaactggtac atcancaaga accccaagga caagaggcat gtctggttcg gcgagagcat
                                                                        300
gaccgatgga ttccagttcg agtatggcgg ccagggctcc gaccctgccg atgtggccat
                                                                        360
ccagctgacc ttcctgcgcc tgatgtccac cgaggcctcc canaacatca cctaccactg
                                                                        420
caagaacagc gtggcctaca tggaccanca nactggcaac c
                                                                        461
<210> 986
<211> 138
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(138)
<223> n = A, T, C or G
<400> 986
gagcggctgc tgaaggcccg ggggccagag gtggacacct tgtangactt ctgggtcacc
                                                                         60
ctgatggaca tggtagaggc aggagtggag gcaggcgggc cgaaccaggc ggagatccta
                                                                        120
gaaggagcgg aggtcgnc
                                                                        138
<210> 987
<211> 555
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(555)
<223> n = A, T, C or G
<400> 987
gcggccgccc tttttttttt tttttttag tggtataact atatttattg tgcctgaqaq
                                                                         60
gcaaggtgag ggaaaaatct caacagaagc aagtttgggg aaaatctgga gtccccagta
                                                                        120
aaaagcagga aggtctctgc tgtactcatc acagaatggg agagagggct ctcaatagat
                                                                        180
cattcccttt gtttctcccc tgggcttctt gagcttctcg aagttcttca ggatgatgtc
                                                                        240
atataacaca gcataagcat tgcggatctc catgaccatc agccggatgt cccggtactc
                                                                        300
```

tttagtcact tancttggtg	gcatcaccac tggaggctgg tcctcaatcc	ccagctgccg gctcagagaa tcatcagctc gaggtatctg	atacttagag aaacaccttc	atttgagtgt tcctggacag	ggaageette ccaetecaaa	360 420 480 540 555
<210> 988 <211> 318 <212> DNA <213> Homo	sapien					
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<210> 989 <211> 177 <212> DNA <213> Homo	sapien					
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<210> 990 <211> 144 <212> DNA <213> Homo	sapien					
<220> <221> misc <222> (1) <223> n = F	. (144)					
ggcttctttc		gttaagactc tcagaaaggc aatt				60 120 144
<210> 991 <211> 659 <212> DNA <213> Homo	sapien					
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300
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat
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ccagctgacc ttcctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg
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caagaacage gtggcetaca tggaccagea gaetggcaae etcaagaagg eeetgeteet
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                                                                        540
ccagggctcc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt
cactgtcgat ggctgcacga gtcacaccgg agcctggggc aagacagtga ttgaatacaa
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aaccaccaag accteeegee tgeeeateat egatgtggee eeettggaeg ttggtgeee
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<213> Homo sapien
<400> 992
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gtttatctcc aacagcctta tttatccact gcttcttatc atttaaggtg tatactccat
                                                                        120
etecttetgt gegeagtttg tagtagttet tacaetggta gegaacegag tgetecaeat
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agccatgtgc aatctcgggg ggcttcgggc agccgtcatc tgcgat
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<210> 993
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<212> DNA
<213> Homo sapien
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tgggtcaccc tgatggacat ggtanangct ggagtggagg caggcgggcc gaaccaggcg
                                                                       160
gagatectag aaggagegga ggtegaegeg geegegaatt
<210> 994
<211> 622
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(622)
<223> n = A, T, C or G
<400> 994
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ecgcacctge egtgacctca agatgtgeca etetgactgg aagagtggag agtactggat
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tgaccccaac caaggetgea acctggatge cateaaagte ttetgeaaca tggagaetgg
tgagacctgc gtgtacccca ctcagcccag tgtggcccag aagaactggt acatcagcaa
                                                                       240
gaaccccaag gacaagaggc atgtctggtt cggcgagagc atgaccgatg gattccagtt
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cgagtatggc ggccagggct ccgaccctgc cgatgtggcc atccagctga ccttcctgcg
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cctgatgtcc accgaggcct cccagaacat cacctaccac tgcaagaaca gcgtggccta
                                                                       420
catggaccag cagactggca acctcaagaa ggccctgctc ctccagggct ccaacgagat
                                                                       480
                                                                       540
egagateege geegagggea acageegett cacetacage gteaetgteg atggetgeae
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<210> 997						
<211> 125 <211> DNA <213> Homo	sapien		·			
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cggccgccct		ttttttaagg tgaggtggct				60 120 125
<210> 998 <211> 152 <212> DNA						
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<210> 999 <211> 119 <212> DNA <213> Homo	sapien					
<220> <221> misc <222> (1) <223> n = A	. (119)					

<400> 999 taaagcaacc actaaaccac cagactctga cagctnngag <210> 1000 <211> 209 <212> DNA <213> Homo sapien				_	60 119
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<210> 1001 <211> 390 <212> DNA <213> Homo sapien					
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<210> 1002 <211> 613 <212> DNA <213> Homo sapien					
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<212> DNA
<213> Homo sapien
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aqtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc
                                                                        180
tgcaacatgg agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag
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aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg
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accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc
                                                                        360
cagctgacct tectgegeet gatgteeace gaggeeteec agaacateac etaccaetge
                                                                        420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc
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cagggeteca acgagatega gateegegee gagggeaaca geegetteae etacagegte
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actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa
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accaccaaga cctcccgcct gcccatcatc gatgtggcc
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<210> 1004
<211> 85
<212> DNA
<213> Homo sapien
<400> 1004
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                                                                         85
ggcctgccgc tccggccact gcggg
<210> 1005
<211> 636
<212> DNA
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agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc
                                                                        180
tgcaacatgg agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag
                                                                        240
                                                                        300
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc
                                                                        360
cagctgacct teetgegeet gatgteeace gaggeeteee agaacateae etaceaetge
                                                                        420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc
                                                                        480
cagggeteca acgagatega gateegegee gagggeaaca geegetteae etacagegte
                                                                        540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa
                                                                        600
accaccaaga cctcccgcct gcccatcatc gatgtg
                                                                        636
<210> 1006
<211> 629
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(629)
<223> n = A, T, C or G
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agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc
                                                                        180
tgcaacatgg agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag
                                                                        240
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg
                                                                        300
                                                                        360
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc
cagetgacet teetgegeet gatgteeace gaggeeteec agaacateae etaceaetge
                                                                        420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaangc cctgctcctc
                                                                        480
                                                                        540
cagggeteca acgagatega gateegegee gagggeaaca geegetteae etacagegte
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa
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accaccaaga cctcccgcct gcccatcat
                                                                        629
<210> 1007
<211> 575
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(575)
<223> n = A, T, C or G
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                                                                        120
agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc
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tgcaacatgg agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag
                                                                       240
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aactggtnca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc
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cagctgacct tnctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc
                                                                        420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc
                                                                        480
                                                                       540
cagggeteca acgagatega gateegegee gagggeaaca geegetteae etacagegte
actgtcgatg gctgcacgag tcacaccgga gcctg
                                                                        575
<210> 1008
<211> 62
<212> DNA
<213> Homo sapien
<400> 1008
cgatggagcg tgggtaggga gggtccacag tgtccactcg ccgtgtgcga aggttgactc
                                                                        60
                                                                         62
gg
<210> 1009
<211> 180
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(180)
<223> n = A, T, C or G
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<400> 1009 gagctgatgc gggaaccggg gaggtggaca ccttgtagga gaggcaggcg ggccgaacca <210> 1010 <211> 169	cttctgggtc	accctgatgg	acatggtaga	ggcaggagtg	60 120 180
<212> DNA <213> Homo sapien				·	
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<210> 1011 <211> 170 <212> DNA <213> Homo sapien					
<220> <221> misc_feature <222> (1)(170) <223> n = A,T,C or G					
<400> 1011 gagctgatgc gggaaccggg gaggtggaca ccttgtanna gaggcaggcg ggccgaacca	cttctgggtc	accctgatgg	acatggtaga		60 120 170
<210> 1012 <211> 344 <212> DNA <213> Homo sapien					
<220> <221> misc_feature <222> (1)(344) <223> n = A,T,C or G					
<400> 1012 gtggacacca ccctcaagag agccgcaaga accccgcccg agtggagagt actggattga tgcaacatgg agactggtga ctggnncatc ngcangaacc cnatggattc canttnnagt	cacctgccgt ccccaaccaa gacctgcgtg ccnnggacan	gacctcaaga ggctgcaacc taccccactc gaggcntgtc	tgtgccactc tggatgccat agcccagtgg tggttcggcg	tgactggaag caaagtcttc nccanaanaa	60 120 180 240 300 344
<210> 1013 <211> 157 <212> DNA <213> Homo sapien					
<220>					

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<221> misc_feature
<222> (1)...(157)
<223> n = A, T, C or G
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agagtactgg attgacccca accaaggctg caacctggat gccatcaaag tcttctgcaa
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catgganact ggtganncct gcgtgtaccc cactcag
                                                                        157
<210> 1014
<211> 621
<212> DNA
<213> Homo sapien
<400> 1014
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ageogeaaga accoegooog cacetgoogt gaceteaaga tgtgccacte tgactggaag
agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc
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tgcaacatgg agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag
                                                                        240
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aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg
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accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc
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cagctgacct teetgegeet gatgteeace gaggeeteee agaacateae etaceaetge
                                                                        480
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc
                                                                        540
cagggeteca acgagatega gateegegee gagggeaaca geegetteae etacagegte
                                                                        600
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa
                                                                        621
accaccaaga cctcccgcct g
<210> 1015
<211> 104
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(104)
<223> n = A, T, C or G
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ageogeaaga accoegeog cacetgoogt netenagatg tgcc
<210> 1016
<211> 101
<212> DNA
<213> Homo sapien
<400> 1016
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gctgaccagg cggaaagagg agctgcccat gaaggggggc accctgggcg ggatccctgg
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ggagcccgcc gtggaccacc gagatgtgga tgagctgctg g
<210> 1017
<211> 172
<212> DNA
<213> Homo sapien
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<210> 1021

<400> 1017					
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gctgtgagca gtgttggt					172
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<211> 637 <212> DNA					
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tgcaacatgg agactggt					240
aactggtaca tcagcaaga					300
accgatggat tccagttc					360 420
cagetgacet teetgeged aagaacageg tggeetac					480
cagggctcca acgagatco					540
actificgatg gctgcacga					600
accaccaaga cctcccgc					637
<210> 1019					
<211> 623 <212> DNA					
<213> Homo sapien					
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agtggagagt actggatt					180
tgcaacatgg agactggt					240
aactggtaca tcagcaaga					300
accgatggat tccagttco					360
cagetgacet teetgegee					420 480
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actgtcgatg gctgcacga					600
accaccaaga cctcccgc		3 3333	3 3 3	,	623
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gggccgctgc gggctccg					120
ggggtcccgg gatggtgg					180
ggcagctgcg agagtgaca	c atggtgagcc	gagcggaggt	cgacgcggcc	gcg	233

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<211> 180
<212> DNA
<213> Homo sapien
<400> 1021
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gaggtggaca ccttgtagga cttctgggtc accctgatgg acatggtaga ggcaggagtg
                                                                        120
gaggcaggcg ggccgaacca ggcggagatc ctagaaggag cggaggtcga cgcggccgcg
                                                                        180
<210> 1022
<211> 636
<212> DNA
<213> Homo sapien
<400> 1022
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agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc
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tgcaacatgg agactggtga gacctgcgtg taccccactc agcccagtgt ggcccagaag
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aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc
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cagctgacct teetgegeet gatgteeace gaggeeteec agaacateae etaceaetge
                                                                        420
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aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc
cagggeteca acgagatega gateegegee gagggeaaca geegetteae etacagegte
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actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa
accaccaaga cctcccgcct gcccatcatc gatgtg
                                                                        636
<210> 1023
<211> 162
<212> DNA
<213> Homo sapien
<400> 1023
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                                                                        120
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt
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gtgtcgctgc agcgacgagg atggcacgtc gacgcggccg cg
<210> 1024
<211> 124
<212> DNA
<213> Homo sapien
<400> 1024
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atgggagtgg acatcegeca taacaaggac egaaaggtte ggegeaagga geceaagage
                                                                        120
cagg
                                                                        124
<210> 1025
<211> 635
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
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<222> (1)...(635)
<223> n = A, T, C or G
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attggctgtg ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt
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gaagtagggt gagtcctcaa aatccgtata gttggtgaag ccacagcact tgagcccttt
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catggtggtg ttccacactt gagtgaagtc ttcctgggaa ccataatctt tcttgatggc
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aggcactacc agcaacgtca ggaagtgctc agccattgtg gtgtacacca aggcgaccac
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agcagctgca acctcagcaa tgaagatgag gaggaggatg aagaagaacg tcacgagggc
                                                                        420
acacttgctc tcagtcttag caccatagca gcccaggaaa ccaagagcaa agaccacaac
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gccggctgcg atgaggaagt agcccacgtt gacaaactgc atggcactgg acgacagtgg
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cccgaagatc ttcagaaagg atgccccatc gattgacacc cagatgccca ctgccaacag
                                                                        600
ggctgcacca cacagaanga tgagcaaatt gaaga
                                                                        635
<210> 1026
<211> 355
<212> DNA
<213> Homo sapien
<400> 1026
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                                                                         60
aagatgacct acgggctcct acaacatttt tataagcaac tgagagaaga ttcctctct
                                                                        120
cattggataa ttcagctcct tgctcagtta cagacttcat gcaggctgcc atgtcatcat
                                                                        180
ategeteage etgeteggee agtttggeet tetgaaceag eteattttta tecatgaetg
                                                                       240
gatgttctgt gtccggagtg ggtggtggcg gcggacggac gggctcagca gtctctgggc
                                                                        300
ggcggcggcg gcagcagcgg cgaggctgag actctgtccc gtcgacgcgg ccqcq
                                                                        355
<210> 1027
<211> 148
<212> DNA
<213> Homo sapien
<400> 1027
tgccaccctg gtgcccatga ctgtggcctt ggtgcccagg aggggccaga gctggtgggt
                                                                        60
gctggctgtt cttctccctc tggccctgag cccctggctc tggagctgcc tgtaggggct
                                                                       120
gaagggccat cccactgcca ttctccgg
                                                                       148
<210> 1028
<211> 479
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A, T, C or G
<400> 1028
ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc
                                                                        60
ctagtggaag ccttccagta atttcttgaa gctgagcgct caggtgagta gggcgacatc
                                                                       120
tggtggccgg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggaqcctqca
                                                                       180
gtgagggcgt cctggggttc tccggttctc accaccettg ggccacgccg tctagtccac
                                                                       240
```

```
acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtgccc
                                                                        300
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat
                                                                        360
egeageette cageeetega aateggtgae gtetgeeacg aagageeett egeagageat
                                                                        420
cagggetttg ttttcgtang caatggtgcg atctgagccg ccagacttgg tgaggecca
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<210> 1029
<211> 64
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(64)
<223> n = A, T, C or G
<400> 1029
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                                                                         60
                                                                         64
tggg
<210> 1030
<211> 531
<212> DNA
<213> Homo sapien
<400> 1030
                                                                         60
cctgtcagag tggcactggt agaagttcca ggaaccctga actgtaaggg ttcttcatca
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atggttgtct gagagagagc ttcttgtcct acattcggcg ggtatggtct tggcctatgc
                                                                        180
                                                                        240
cttatggggg tggccgttgt gggcggtgtg gtccgcctaa aaccatgttc ctcaaagatc
atttgttgcc caacactggg ttgctgacca gaagtgccag gaagctgaat accatttcca
                                                                       300
                                                                       360
gtgtcatacc cagggtgggt gacgaaaggg gtcttttgaa ctgtggaagg aacatccaag
atctctggtc catgaagatt ggggtgtgga agggttacca gttggggaag ctcgtctgtc
                                                                        420
tttttccttc caatcagggg ctcgctcttc tgattattct tcagggcaat gacataaatt
                                                                       480
                                                                       531
gtatattcgg ttcccggttc caggccagta atagtagcct ctgtgacacc a
<210> 1031
<211> 518
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(518)
<223> n = A, T, C or G
<400> 1031
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tcatccctgt gttagaccgg atccgatatg tgcagagtct caaggaaatt gtcatcaacg
                                                                       120
                                                                       180
tgcctgagca gtcggctgtg actctcgaca atgtaactct gcaaatcgat ggagtccttt
acctgcgcat catggaccct tacaaggcaa gctacggtgt ggaggaccct gagtatgccg
                                                                       240
                                                                       300
tcacccagct agctcaaaca accatgagat cagagctcgg caaactctct ctggacaaag
                                                                       360
tetteeggga acgggagtee etgaatgeea geattgtgga tgeeateaae caagetgetg
                                                                       420
actgctgggg tatccgctgc ctccgttatg agatcaagga tatccatgtg ccaccccggg
tgaaagagte tatgcagatg cangtggagg cagageggeg gaaaegggee acagttetag
                                                                        480
```

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<210> 1032 <211> 116						
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<213> Homo	sapien					
<400> 1032						
		ttaaaggtag ctggaaaata				60 116
	J			y	3	
<210> 1033 <211> 241						
<212> DNA						
<213> Homo	sapien					
<400> 1033						
		gtaatcagag gtaatgttga				60 120
tgagattgtt	tgggctactg	ctcgcagtgc	gccgatcagg	gcgtagtttg	agtttgatgc	180
tcaccctgat g	cagaggattg	agtaaacggc	taggctagag	gtggctagaa	taaataggag	240 241
			•			
<210> 1034 <211> 234				•		
<212> DNA						
<213> Homo	sapien					
<400> 1034						
		cagtggtact ccccggggga				60 120
		gccgtggtga				180
atgttcgggc	cgtcctgcat	ctcctgctct	cggtgcccgc	cggcttcctg	ctgg	234
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<211> 434 <212> DNA						
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<220>						
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	1,1,0 01 0					
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tttccttaca	caatgacgtg	ttgctggggc	ctaatgttct	cacataacag	tanaaaacca	120
		aaagaatcga aggcgtaaat				180 240
-		aggegtaaat	-			300
-		cccgcaagac	_	-	_	360 420
cacacanact	_	ctgacacgtt	aataccctgc	acanatcana	ggergnegge	420

<213> Homo sapien

```
<210> 1036
<211> 294
<212> DNA
<213> Homo sapien
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ttgccctaac accetgtetg actetetece getgeageag ceagtecete etgeacteea
                                                                       120
gcaactccaq ccatcaqtca tcttccaqat ccttqqaaaq tccaqccaac tcttcctcca
                                                                       180
gcctccacag ccttggctca gtgtccctgt gtacaagacc cagtgacttc caggctccca
                                                                       240
gaaaccccac cctaaccatg ggccaaccca gaacacccca ctctccacca ctgg
                                                                       294
<210> 1037
<211> 547
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(547)
<223> n = A, T, C or G
<400> 1037
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agcnnaatgt tcaagttaaa aaaaaaacat accgggtgag caatgcacta aaattatcca
                                                                       120
catgaaaaca aatggtctgt aatcttataa accaacatag catttcactg tcaacaatgt
                                                                       180
gaaaatttaa tatcttctca aacaqqcata aqatqaaqaa qtqctatttt ttaattqtaa
                                                                       240
aaggaactta tqtaatqnta aaattacatt ataatttttc attccqaatt qacaaatqat
                                                                       300
ttcaaaaaca aggnatcaaa gtttgactgc aaatagtaat gcaatataat ttcataaaaa
                                                                       360
teetteaatt tetattttt teetttetq tagttqacat atqaaqacca etteaattte
                                                                       420
taaaaaaaggg aaccattcca attttccctc cccaagaaaa tgtctcacaa ttacaaagta
                                                                       480
gaaaaacaqc cqttcataaa atqcaaaaaa aanttctqat tttatacatq aaataatttc
                                                                       540
tagatca
                                                                       547
<210> 1038
<211> 451
<212> DNA
<213> Homo sapien
<400> 1038
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tgatgttgtg aatggagaat atgtccctcg caaatccatc ctgaagtctc gaagtagaga
                                                                       120
gaatagtgtg tgtagcgaca ctagtgaaag cagtgctgct gaatttgatg ataggcgggg
                                                                       180
agttttgagg agtatcagct gcgaagaagc cacttgcagt gacaccagtg agagcatttt
                                                                       240
ggaagaggaa ccacaagaaa atcaaaagaa acttttgccc ttatcagtaa cacctgaggc
                                                                       300
tttttctgga actgttatag aaaaagaatt tgtatcacct tccttaacac caccccagc
                                                                       360
cattgctcat cccgcactac ccactattcc agaacgaaag gaagttctqt tggaagcatc
                                                                       420
tgaagaaact ggaaagaggg tttcaaagtt t
                                                                       451
<210> 1039
<211> 533
<212> DNA
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<400> 1039
ccaagcccgt gcaccgtttt ttgtaaggta tctctttaag cgcctgggac cccaagcgag
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                                                                       120
aagcctcttt ttacctgctt gacaggtaat ttctgtaatt ggttgtgatt gaatttgata
                                                                       180
gggtagagaa ttaaatgagg gaagctgtgt atacttccta gtaagagcta ttatatgact
                                                                       240
gattacatta acatcatatg gaaaaaaatt gtcaaaagta ctccgggaaa gcccttaaat
                                                                       300
agttggtaaa gtacagaaca catgattgtc aatatatgta aatacaggat gagctaggac
                                                                       360
agaggggccc ttctttcaca ccacttaaat tagttcccac tttaaccttg tttgagattg
                                                                       420
acttctggag agttaaatgc agatagactt aactctccta agtcaggtga gactgagagc
                                                                       480
tgactgctac aataattacg gagcccaaat gcagtaaaac agcctgtttt tca
                                                                       533
<210> 1040
<211> 317
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A, T, C or G
<400> 1040
tgcctgctgg ggattactcg atcaaaacct tccttccctg gctacttccc ttcctcccgg
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ggccttcctt ttgaggagct ggaggggtgg ggagctagag gccacctatg ccagtgctca
                                                                       120
aggttactgg gagtgtgggc tgcccttgnt gcctgcaccc ttccctcttc cctctccctc
                                                                       180
tetetgggae caetgggtae aagagatggg atgeteegae agegtetnea attatgaaae
                                                                       240
                                                                       300
taatettaac ceetgtgetg teagatacee tgtttetgga gteacateag tgaggaggga
tgtgggtaag aggagca
                                                                       317
<210> 1041
<211> 407
<212> DNA
<213> Homo sapien
<220>
<221> misc feature
<222> (1)...(407)
<223> n = A, T, C or G
<400> 1041
ccaagacagt ccacttacat ggatcgtgtc ttcaagcaat ttgtncaagc catggttgag
                                                                        60
catggacatg aactctctta acatgtantt ctttgggtgc attttgtctg aaccacaatt
                                                                       120
gtgaaggcag ctcagcttag tgcacaaatt ttaactgttg tatataaagc aaataagtca
                                                                       180
gcanatgggt gaagaggtcc agaatgatat gcaaaaacta ctttttagag aaacananca
                                                                       240
actttgtagc aacaattaa atatagtatt agattgttac ttacgtagat tttattttta
                                                                       300
ctatgcctta ccaagtacat ccttaaacaa agtagtatgt acatgaaatt gcacttaacc
                                                                       360
aaaactattg tgtaaaacaa atttttaatt cctcagggtt ttaattt
                                                                       407
<210> 1042
<211> 519
<212> DNA
<213> Homo sapien
<220>
```

```
<221> misc_feature
<222> (1)...(519)
<223> n = A, T, C or G
<400> 1042
ccaccacacc caatteettg etggtateat ggeageegee aegtgeeagg attacegget
                                                                        60
acatcatcaa gtatgagaag cctgggtctc ctcccagaga agtggtccct cggccccgcc
                                                                       120
ctggtgtcac agaggctact attactggcc tggaaccggg aaccgaatat acaatttatg
                                                                       180
tcattgccct gaagaataat cagaagagcg agcccctgat tggaaggaaa aagacagacg
                                                                       240
agetteecca actggtaace ettecacace ecaatettea tggaccagag atettggatg
                                                                       300
ttccttccac agttcaaaag acceptttcg tcacccacce tgggtatgac actggaaatg
                                                                       360
gtattcagct tcctggcact tctggtcagc aacccagtgt tgggcaacaa atgatctttg
                                                                       420
aggaacatgg ttttaggcgg accacaccgg cccacaacgg ncacccccat aaaggcatag
                                                                       480
qccaaagacc atacccgccq aatgtaggac aagaaagct
                                                                       519
<210> 1043
<211> 294
<212> DNA
<213> Homo sapien
<400> 1043
ccatgacage agetactget teacatagea geatacgeea catgtteace tteaatattt
                                                                        60
ttccagtctg tctatctttc tccacacagt agcagctatc atagaactct gtgaaagcag
                                                                       120
ttgccagctc atatatataa tcacagagag tgtggagaaa taagtcatct aaaatctttt
                                                                       180
gcagaatete agggaacegt aaaatgcace ggcetagttt ccatteette teatgateca
                                                                       240
aaagaatett ggtttetega geagettttt ggageattte tteateaata ttgg
                                                                       294
<210> 1044
<211> 384
<212> DNA
<213> Homo sapien
<400> 1044
ccaggcgctc cttgtcggca tcagggaggg tggccttgaa ctgctcatgg gctgtggtca
                                                                        60
gtecetggat etecteaatg gtgtgeacaa tgaaggtgte etgeaggtee tecatggeee
                                                                       120
cctccatcca gttgttgaag ggtgcagccc gcttggcata ctccaagtac agctggtcaa
                                                                       180
tggtctccag cagtttctcg gtccgctcca gagcttccct tcgcttctga gttagggcc
                                                                       240
ccagattgtc ccactggtca cagatctttt ggcaacgggc gttgacactg ggtgagtcat
                                                                       300
aatagtccag ctcattgagc tcctgtgcga tggcggcaat ctgctccaca cggtcctqgt
                                                                       360
gggcagccag gtcactctcg aagg
                                                                       384
<210> 1045
<211> 456
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(456)
<223> n = A, T, C or G
<400> 1045
aaaactaatg ttacaaatct gtattatcac ttgtatataa atagtatata gctgatcatt
                                                                        60
aataaggtgt ataagtacaa tgtattctaa aactgttaag caaaaaaaa aaacaaanna
                                                                       120
```

<210> 1049

```
aaaatccaag tgtcctcctc caccactcac gctggtgatc actgtgctct ctgccagctg
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cgtggagtga cgggaggagg gaatcactgt gtgtgcgaga gtgcttcaga ctcaatttcc
                                                                     240
aaaataattt tcacccctct aagcatgtaa atatacaaag atggatcctt catagaaatt
                                                                     300
aaaaaaatcaa tttgagctca tttcgaatac agaacaagta tggcacagat ggaagtcctg
                                                                     360
ccacgtttcc tttaatgatg ctgactcttg tatcacacag gccagcatga agtttcttac
                                                                     420
tcagacttta caggcatttt ccgtaattca atcagt
                                                                     456
<210> 1046
<211> 136
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(136)
<223> n = A, T, C or G
<400> 1046
atnatctgtt tctaaacgaa agctgcngcg gaatgagagt gagccttcag agatgaaagc
                                                                      60
catggctctg aaaggtggcn gggcagaagg aaccetnegt teanetaaaa gtgaggagte
                                                                     120
tcttacatct ctccat
                                                                     136
<210> 1047
<211> 453
<212> DNA
<213> Homo sapien
<400> 1047
aaaaaaatcc aaatgctggc attgtccaga aaaatttaac aggtttattt ataattatta
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taaagttgaa ccgctgaaac ttgttcactg aaacatttta acttgcatta atgctttacg
                                                                     120
tctccgcatt tatattaaaa attcacacac aaatgaaaat ggaaaaactg ccaatacctg
                                                                     180
atttctgtcc cctatttttc cactcgcaat catatactta ggtacctttt gaccccatqq
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300
tttttgggaa tgaaatgttt cccatcatag tggattctta agcacgttct ccacgtatqc
                                                                     360
ggcgtgctag ctggatgtct tttggcataa ttgttacacg tttggcatgg atagcacaca
                                                                     420
ggttggtgtc ttcaaaaagg ccaaccagat agg
                                                                     453
<210> 1048
<211> 219
<212> DNA
<213> Homo sapien
<220>
<221> misc_feature
<222> (1)...(219)
<223> n = A, T, C or G
<400> 1048
aaaatcacaa acnttaacgg cagtaggcac caccatgtaa aagtgagctc agacgtctct
                                                                      60
aaaaaatgtt tootttataa aagcacatgg oggttgaato ttaaggttaa attttaatat
                                                                     120
gaaagatoot catgaattaa atagttgatg caatttttaa ogttaattga tataaaaaaa
                                                                     180
aacaacaaaa ttaggcttgt aaaactgact ttttcatta
                                                                     219
```

```
<211> 2465
<212> DNA
<213> Homo sapiens
<400> 1049
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gtggtaaatt agacaacact aacgaataca atagtaatga tggtaagaaa ttaccccagg 180
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taaatcaagg aggaagaaaa tatggaattc aagaaaaaag ggataaaacc ctaatagact 720
caaaqcataq agctqqaqaa ataaccaqtq atqqcttqaq cttcctattt cttaaaqaaq 780
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gtttgatagg aattccagaa aaggagagtt atgagaatag ggcagaggac ataattaaag 1860
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ctagaagtaa atggagcaat gtcttcaaag ttctgctgga aaaaggcttt aatcctagaa 2160
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<210> 1050
<211> 3120
<212> DNA
<213> Homo sapiens
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<210> 1059
<211> 440
<212> PRT
<213> Homo sapiens
<400> 1059
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Asp	Asn	Thr 35	Asn	Glu	Tyr	Asn	Ser 40	Asn	Asp	Gly	Lys	Lys 45	Leu	Pro	Gln
Gly	Glu 50	Ser	Arg	Ser	Tyr	Glu 55	Val	Met	Gly	Ser	Met 60	Glu	Glu	Thr	Leu
Cys 65	Asn	Ile	Asp	Asp	Arg 70	Asp	Gly	Asn	Arg	Asn 75	Val	His	Leu	Glu	Phe 80
Thr	Glu	Arg	Glu	Ser 85	Arg	Lys	Asp	Gly	Glu 90	Asp	Glu	Phe	Val	Lys 95	Glu
Met	Arg	Glu	Glu 100	Arg	Lys	Phe	Gln	Lys 105	Leu	Lys	Asn	Lys	Glu 110	Glu	Val
Leu	Lys	Ala 115	Ser	Arg	Glu	Glu	Lys 120	Val	Leu	Met	Asp	Glu 125	Gly	Ala	Val
Leu	Thr 130	Leu	Ala	Ala	Asp	Leu 135	Ser	Ser	Ala	Thr	Leu 140	Asp	Ile	Ser	Lys
Gln 145	Trp	Ser	Asn	Val	Phe 150	Asn	Ile	Leu	Arg	Glu 155	Asn	Asp	Phe	Glu	Pro 160
Lys	Phe	Leu	Cys	Glu 165	Val	Lys	Leu	Ala	Phe 170	Lys	Cys	Asp	Gly	Glu 175	Ile
Lys	Thr	Phe	Ser 180	Asp	Leu	Gln	Ser	Leu 185	Arg	Lys	Phe	Ala	Ser 190	Gln	Lys
Ser	Ser	Met 195	Lys	Glu	Leu	Leu	Lys 200	Asp	Val	Leu	Pro	Gln 205	Lys	Glu	Glu
Ile	Asn 210	Gln	Gly	Gly	Arg	Lys 215		Gly	Ile	Gln	Glu 220	_	Arg	Asp	Lys
Thr 225	Leu	Ile	Asp	Ser	Lys 230	His	Arg	Ala	Gly	Glu 235	Ile	Thr	Ser	Asp	Gly 240
Leu	Ser	Phe	Leu	Phe 245	Leu	Lys	Glu	Val	Lys 250	Val	Ala	Lys	Pro	Glu 255	Glu
Met	Lys	Asn	Leu 260	Glu	Thr	Gln	Glu	Glu 265	Glu	Phe	Ser	Glu	Leu 270	Glu	Glu
Leu	Asp	Glu 275	Glu	Ala	Ser	Gly	Met 280	Glu	Asp	Asp	Glu	Asp 285	Thr	Ser	Gly
Len	Glu	Glu	Glu	Glu	Glu	Glu	Pro	Ser	Glv	Leu	Glu	G111	Glu	Glu	Glu

326

300 290 295 Glu Glu Ala Ser Gly Leu Glu Glu Asp Glu Ala Ser Gly Leu Glu Glu 310 Glu Glu Glu Gln Thr Ser Glu Gln Asp Ser Thr Phe Gln Gly His Thr 330 Leu Val Asp Ala Lys His Glu Val Glu Ile Thr Ser Asp Gly Met Glu 345 Thr Thr Phe Ile Asp Ser Val Glu Asp Ser Glu Ser Glu Glu Glu Glu Glu Gly Lys Ser Ser Glu Thr Gly Lys Val Lys Thr Thr Ser Leu Thr 375 Glu Lys Lys Ala Ser Arg Arg Gln Lys Glu Ile Pro Phe Ser Tyr Leu Val Gly Asp Ser Gly Lys Lys Leu Val Lys His Gln Val Val His Lys Thr Gln Glu Glu Glu Glu Thr Ala Val Pro Thr Ser Gln Gly Thr 425 Gly Thr Pro Cys Leu Thr Leu Cys 435 <210> 1060 <211> 230 <212> PRT <213> Homo sapiens <400> 1060 Met Asn Glu Met Tyr Leu Arg Cys Asp His Glu Asn Gln Tyr Ala Gln Trp Met Ala Ala Cys Met Leu Ala Ser Lys Gly Lys Thr Met Ala Asp Ser Ser Tyr Gln Pro Glu Val Leu Asn Ile Leu Ser Phe Leu Arg Met Lys Asn Arg Asn Ser Ala Ser Gln Val Ala Ser Ser Leu Glu Asn Met 55 Asp Met Asn Pro Glu Cys Phe Val Ser Pro Arg Cys Ala Lys Arg His Lys Ser Lys Gln Leu Ala Ala Arg Ile Leu Glu Ala His Gln Asn Val

Ala Gln Met Pro Leu Val Glu Ala Lys Leu Arg Phe Ile Gln Ala Trp 100 105 110

Gln Ser Leu Pro Glu Phe Gly Leu Thr Tyr Tyr Leu Val Arg Phe Lys 115 120 125

Gly Ser Lys Lys Asp Asp Ile Leu Gly Val Ser Tyr Asn Arg Leu Ile 130 135 140

Lys Ile Asp Ala Ala Thr Gly Ile Pro Val Thr Thr Trp Arg Phe Thr 145 150 155 160

Asn Ile Lys Gln Trp Asn Val Asn Trp Glu Thr Arg Gln Val Val Ile 165 170 175

Glu Phe Asp Gln Asn Val Phe Thr Ala Phe Thr Cys Leu Ser Ala Asp 180 185 190

Cys Lys Ile Val His Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser Thr 195 200 205

Arg Ser Lys Asp Gln Asn Glu Thr Leu Asp Glu Asp Leu Phe His Lys 210 215 220

Leu Thr Gly Gly Gln Asp 225 230

<210> 1061

<211> 311

<212> PRT

<213> Homo sapiens

<400> 1061

Met Tyr Val Ser Tyr Leu Leu Asp Lys Asp Val Ser Met Tyr Pro Ser 5 10 15

Ser Val Arg His Ser Gly Gly Leu Asn Leu Ala Pro Gln Asn Phe Val 20 25 30

Ser Pro Pro Gln Tyr Pro Asp Tyr Gly Gly Tyr His Val Ala Ala Ala 35 40 45

Ala Ala Ala Gln Asn Leu Asp Ser Ala Gln Ser Pro Gly Pro Ser Trp
50 55 60

Pro Ala Ala Tyr Gly Ala Pro Leu Arg Glu Asp Trp Asn Gly Tyr Ala 65 70 75 80

Pro Gly Gly Ala Ala Ala Ala Asn Ala Val Ala His Ala Leu Asn Gly 85 90 95

Gly Ser Pro Ala Ala Ala Met Gly Tyr Ser Ser Pro Ala Asp Tyr His 100 105 110

Pro His His Pro His His Pro His His Pro Ala Ala Pro 115 120 125

Ser Cys Ala Ser Gly Leu Leu Gln Thr Leu Asn Pro Gly Pro Pro Gly 130 135 140

Pro Ala Ala Thr Ala Ala Ala Glu Gln Leu Ser Pro Gly Gly Gln Arg 145 150 155 160

Arg Asn Leu Cys Glu Trp Met Arg Lys Pro Ala Gln Gln Ser Leu Gly
165 170 175

Ser Gln Val Lys Thr Arg Thr Lys Asp Lys Tyr Arg Val Val Tyr Thr 180 185 190

Asp His Gln Arg Leu Glu Leu Glu Lys Glu Phe His Tyr Ser Arg Tyr 195 200 205

Ile Thr Ile Arg Arg Lys Ala Glu Leu Ala Ala Thr Leu Gly Leu Ser 210 215 220

Glu Arg Gln Val Lys Ile Trp Phe Gln Asn Arg Arg Ala Lys Glu Arg 225 230 235 240

Lys Ile Asn Lys Lys Lys Leu Gln Gln Gln Gln Gln Gln Gln Pro Pro 245 250 255

Gln Pro Pro Pro Pro Pro Gln Pro Gln Pro Gln Pro Gly Pro 260 265 270

Leu Arg Ser Val Pro Glu Pro Leu Ser Pro Val Ser Ser Leu Gln Ala 275 280 285

Ser Val Ser Gly Ser Val Pro Gly Val Leu Gly Pro Thr Gly Gly Val 290 295 300

Leu Asn Pro Thr Val Thr Gln 305 310

<210> 1062

<211> 237

<212> PRT

<213> Homo sapiens

<400> 1062

Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met Phe Thr Phe Asn

Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala Leu Ala Ile Trp
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Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val

		35					40					45			
Gly	Ser 50	Ser	Ser	Tyr	Val	Ala 55	Val	Asp	Ile	Leu	Ile 60	Ala	Val	Gly	Ala
Ile 65	Ile	Met	Ile	Leu	Gly 70	Phe	Leu	Gly	Суѕ	Cys 75	Gly	Ala	Ile	Lys	Glu 80
Ser	Arg	Cys	Met	Leu 85	Leu	Leu	Phe	Phe	Ile 90	Gly	Leu	Leu	Leu	Ile 95	Leu
Leu	Leu	Gln	Val 100	Ala	Thr	Gly	Ile	Leu 105	Gly	Ala	Val	Phe	Lys 110	Ser	Lys
Ser	Asp	Arg 115	Ile	Val	Asn	Glu	Thr 120	Leu	Tyr	Glu	Asn	Thr 125	Lys	Leu	Leu
Ser	Ala 130	Thr	Gly	Glu	Ser	Glu 135	Lys	Gln	Phe	Gln	Glu 140	Ala	Ile	Ile	Val
Phe 145	Gln	Glu	Glu	Phe	Lys 150	Cys	Cys	Gly	Leu	Val 155	Asn	Gly	Ala	Ala	Asp 160
Trp	Gly	Asn	Asn	Phe 165	Gln	His	Tyr	Pro	Glu 170	Leu	Cys	Ala	Cys	Leu 175	Asp
Lys	Gln	Arg	Pro 180	Cys	Gln	Ser	Tyr	Asn 185	Gly	Lys	Gln	Val	Tyr 190	Lys	Glu
Thr	Cys	Ile 195	Ser	Phe	Ile	Lys	Asp 200	Phe	Leu	Ala	Lys	Asn 205	Leu	Ile	Ile
Val	Ile 210	Gly	Ile	Ser	Phe	Gly 215	Leu	Ala	Val	Ile	Glu 220	Ile	Leu	Gly	Leu
Val 225	Phe	Ser	Met	Val	Leu 230	Tyr	Cys	Gln	Ile	Gly 235	Asn	Lys			
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Ser	Ser	Ser	Ser	Ala	Glu	Glu	Tyr	Val	Gly	Leu	Ser	Ala	Asn	Gln	Cys

Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr Pro His Val Thr 35 40 45

Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Arg Ile Pro 50 55 60

Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys Thr Phe 65 70 75 80

<210> 1064

<211> 323

<212> PRT

<213> Homo sapiens

<400> 1064

Met Ala Tyr Val Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr
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Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser 20 25 30

Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg Phe Phe Val 35 40 45

Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe 50 55 60

Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln 65 . 70 . 75 . 80

Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys 85 90 95

Lys Gly Ala Ala Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr 100 105 110

Lys Val Val Val Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu 115 120 125

Pro Leu Gln Met Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu 130 135 140

Gln Ser Ile Asn Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro 145 150 155 160

Pro Met Met Pro Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu 165 170 175

Asn Ser Leu Pro Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val 180 185 190

Pro Tyr Phe Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile 195 200 205

Ile Ile Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn 210 215 220

Phe Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg 225 230 235 240

Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp 245 250 255

Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln 260 265 270

Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr 275 280 285

Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe 290 295 300

Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr 305 310 315 320

Val Gln Ile

<210> 1065

<211> 957

<212> PRT

<213> Homo sapiens

<400> 1065

Arg Asn Arg Pro His Thr Thr Ala Phe Pro Gly Ser Thr Thr Met Pro 10 15

Gly Val Ser Gln Glu Ser Thr Ala Ser His Ser Ser Pro Gly Ser Thr 20 25 30

Asp Thr Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Pro 35 40 45

Glu Ser Thr Thr Phe His Ser Gly Pro Gly Ser Thr Glu Thr Thr Leu 50 55 60

Leu Pro Asp Asn Thr Thr Ala Ser Gly Leu Leu Glu Ala Ser Thr Pro 65 70 75 80

Val His Ser Ser Thr Gly Ser Pro His Thr Thr Leu Ser Pro Ala Gly 85 90 95

Ser Thr Thr Arg Gln Gly Glu Ser Thr Thr Phe Gln Ser Trp Pro Asn 100 105 110

Ser Lys Asp Thr Thr Pro Ala Pro Pro Thr Thr Thr Ser Ala Phe Val 115 120 125

Glu Leu Ser Thr Thr Ser His Gly Ser Pro Ser Ser Thr Pro Thr Thr

130 135 140 His Phe Ser Ala Ser Ser Thr Thr Leu Gly Arg Ser Glu Glu Ser Thr 150 155 Thr Val His Ser Ser Pro Val Ala Thr Ala Thr Thr Pro Ser Pro Ala Arg Ser Thr Thr Ser Gly Leu Val Glu Glu Ser Thr Thr Tyr His Ser Ser Pro Gly Ser Thr Gln Thr Met His Phe Pro Glu Ser Asp Thr Thr 195 200 Ser Gly Arg Gly Glu Glu Ser Thr Thr Ser His Ser Ser Thr Thr His 215 Thr Ile Ser Ser Ala Pro Ser Thr Thr Ser Ala Leu Val Glu Glu Pro 230 235 Thr Ser Tyr His Ser Ser Pro Gly Ser Thr Ala Thr Thr His Phe Pro 245 250 Asp Ser Ser Thr Thr Ser Gly Arg Ser Glu Glu Ser Thr Ala Ser His 265 Ser Asn Gln Asp Ala Thr Gly Thr Ile Val Leu Pro Ala Arg Ser Thr 275 Thr Ser Val Leu Leu Gly Glu Ser Thr Thr Ser Pro Ile Ser Ser Gly 295 Ser Met Glu Thr Thr Ala Leu Pro Gly Ser Thr Thr Thr Pro Gly Leu 310 315 Ser Glu Lys Ser Thr Thr Phe His Ser Ser Pro Arg Ser Pro Ala Thr 325 330 Thr Leu Ser Pro Ala Ser Thr Thr Ser Ser Gly Val Ser Glu Glu Ser 345 Thr Thr Ser His Ser Arg Pro Gly Ser Thr His Thr Thr Ala Phe Pro 355 Asp Ser Thr Thr Thr Pro Gly Leu Ser Arg His Ser Thr Thr Ser His 375 Ser Ser Pro Gly Ser Thr Asp Thr Thr Leu Leu Pro Ala Ser Thr Thr 390 395 Thr Ser Gly Pro Ser Gln Glu Ser Thr Thr Ser His Ser Ser Pro Gly 405 410 Ser Thr Asp Thr Ala Leu Ser Pro Gly Ser Thr Thr Ala Leu Ser Phe

			420					425			•		430		
Gly	Gln	Glu 435	Ser	Thr	Thr	Phe	His 440	Ser	Ser	Pro	Gly	Ser 445	Thr	His	Thr
Thr	Leu 450	Phe	Pro	Asp	Ser	Thr 455	Thr	Ser	Ser	Gly	Ile 460	Val	Glu	Ala	Ser
Thr 465	Arg	Val	His	Ser	Ser 470	Thr	Gly	Ser	Pro	Arg 475	Thr	Thr	Leu	Ser	Pro 480
Ala	Ser	Ser	Thr	Ser 485	Pro	Gly	Leu	Gln	Gly 490	Glu	Ser	Thr	Ala	Phe 495	Gln
Thr	His	Pro	Ala 500	Ser	Thr	His	Thr	Thr 505	Pro	Ser	Thr	Pro	Ser 510	Thr	Ala
Thr	Ala	Pro 515	Val	Glu	Glu	Ser	Thr 520	Thr	Tyr	His	Arg	Ser 525	Pro	Ser	Ser
Thr	Pro 530	Thr	Thr	His	Phe	Pro 535	Ala	Ser	Ser	Thr	Thr 540	Ser	Gly	His	Ser
Glu 545	Lys	Ser	Thr	Ile	Phe 550	His	Ser	Ser	Pro	Asp 555	Ala	Ser	Gly	Thr	Thr 560
Pro	Ser	Ser	Ala	His 565	Ser	Thr	Thr	Ser	Gly 570	Arg	Gly	Glu	Ser	Thr 575	Thr
Ser	Arg	Ile	Ser 580	Pro	Gly	Ser	Thr	Glu 585	Ile	Thr	Thr	Leu	Pro 590	Gly	Ser
Thr	Thr	Thr 595	Pro	Gly	Leu	Ser	Glu 600	Ala	Ser	Thr	Thr	Phe 605	Tyr	Ser	Ser
Pro	Arg 610	Ser	Pro	Thr	Thr	Thr 615	Leu	Ser	Pro	Ala	Ser 620	Met	Thr	Ser	Leu
Gly 625	Val	Gly	Glu	Glu	Ser 630	Thr	Thr	Ser	Arg	Ser 635	Gln	Pro	Gly	Ser	Thr 640
His	Ser	Thr	Val	Ser 645	Pro	Ala	Ser	Thr	Thr 650	Thr	Pro	Gly	Leu	Ser 655	Glu
Glu	Ser	Thr	Thr 660	Val	Tyr	Ser	Ser	Ser 665	Pro	Gly	Ser	Thr	Glu 670	Thr	Thr
Val	Phe	Pro 675	Arg	Ser	Thr	Thr	Thr 680	Ser	Val	Arg	Gly	Glu 685	Glu	Pro	Thr
Thr	Phe 690	His	Ser	Arg	Pro	Ala 695	Ser	Thr	His	Thr	Thr 700	Leu	Phe	Thr	Glu
Asp	Ser	Thr	Thr	Ser	Gly	Leu	Thr	Glu	Glu	Ser	Thr	Ala	Phe	Pro	Gly

705					710					715					720
Ser	Pro	Ala	Ser	Thr 725	Gln	Thr	Gly	Leu	Pro 730	Ala	Thr	Leu	Thr	Thr 735	Ala
Asp	Leu	Gly	Glu 740	Glu	Ser	Thr	Thr	Phe 745	Pro	Ser	Ser	Ser	Gly 750	Ser	Thr
Gly	Thr	Thr 755	Leu	Ser	Pro	Ala	Arg 760	Ser	Thr	Thr	Ser	Gly 765	Leu	Val	Gly
Glu	Ser 770	Thr	Pro	Ser	Arg	Leu 775	Ser	Pro	Ser	Ser	Thr 780	Glu	Thr	Thr	Thr
Leu 785	Pro	Gly	Ser	Pro	Thr 790	Thr	Pro	Ser	Leu	Ser 795	Glu	Lys	Ser	Thr	Thr 800
Phe	Tyr	Thr	Ser	Pro 805	Arg	Ser	Pro	Asp	Ala 810	Thr	Leu	Ser	Pro	Ala 815	Thr
Thr	Thr	Ser	Ser 820	Gly	Val	Ser	Glu	Glu 825	Ser	Ser	Thr	Ser	His 830	Ser	Gln
Pro	Gly	Ser 835	Thr	His	Thr	Thr	Ala 840	Phe	Pro	Asp	Ser	Thr 845	Thr	Thr	Ser
Gly	Leu 850	Ser	Gln	Glu	Pro	Lys 855	Thr	Ser	His	Ser	Ser 860	Gln	Gly	Ser	Thr
Glu 865	Ala	Thr	Leu	Ser	Pro 870	Gly	Ser	Thr	Thr	Ala 875	Ser	Ser	Leu	Gly	Gln 880
Gln	Ser	Thr	Thr	Phe 885	His	Ser	Ser	Pro	Gly 890	Asp	Thr	Glu	Thr	Thr 895	Leu
Leu	Pro	Asp	Asp 900	Thr	Ile	Thr	Ser	Gly 905	Leu	Val	Glu	Ala	Ser 910	Thr	Pro
Thr	His	Ser 915	Ser	Thr	Gly	Ser	Leu 920	His	Thr	Thr	Leu	Thr 925	Pro	Ala	Ser
Ser	Thr 930	Ser	Ala	Gly	Leu	Gln 935	Glu	Glu	Ser	Thr	Thr 940	Phe	Gln	Ser	Trp
Pro 945	Ser	Ser	Ser	Asp	Thr 950	Thr	Pro	Ser	Pro	Pro 955	Gly	Pro			

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<212> PRT

<213> Homo sapiens

<400> 1066

Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu
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Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr 20 25 30

Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr 35 40 45

Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu 50 55 60

Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu 65 70 75 80

Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu 85 90 95

Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro 100 105 110

Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys 115 120 125

Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu 130 135 140

Ala Glu Tyr Gly Pro Gln Gly Lys Ala Phe Val His Glu Trp Ala His 145 150 155 160

Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr
165 170 175

Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr 180 185 190

Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys 195 200 205

Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu 210 215 220

Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala 225 230 235 240

Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn 245 250 255

Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr 260 265 270

Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met 275 280 285

1

Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln 290 295 300

Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly 305 310 315 320

Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe Leu Gln 325 330 335

Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala 340 345 350

Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg 355 360 365

Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser 370 380

Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr 385 390 395 400

Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn 405 410 415

Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile 420 425 430

His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu 435 440 445

Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln 450 455 460

Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly 465 470 475 480

Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu 485 490 495

Gln Asn Ser Gln Trp Met Asn Gly Thr Val Île Val Asp Ser Thr Val 500 505 510

Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln 515 520 525

Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val 530 540

Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys 545 550 555 560

Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr 565 570 575

- Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr 580 585 590
- Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu 595 600 605
- Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala 610 . 615 620
- Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu 625 630 635 640
- Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly
 645 650 655
- Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser 660 665 670
- Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Val 675 680 685
- Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn 690 695 700
- Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp 705 710 715 720
- Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser 725 730 735
- Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro 740 745 750
- Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu 755 760 765
- Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr 770 775 780
- Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg 785 790 795 800
- Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro 805 810 815
- Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile 820 825 830
- Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp 835 840 845
- Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu 850 855 860

Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr 865 870 875 880

338

Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile 885 890 895

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Ile Ala

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<211> 585

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<213> Homo sapiens

<400> 1067

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Thr Ser Leu Tyr Ser Gln Ala Glu Ser Thr His Thr Thr Ala Phe Pro 20 25 30

Ala Ser Thr Thr Ser Gly Leu Ser Gln Glu Ser Thr Thr Phe His 35 40 45

Ser Lys Pro Gly Ser Thr Glu Thr Thr Leu Ser Pro Gly Ser Ile Thr 50 55 60

Thr Ser Ser Phe Ala Gln Glu Phe Thr Thr Pro His Ser Gln Pro Gly 65 70 75 80

Ser Ala Leu Ser Thr Val Ser Pro Ala Ser Thr Thr Val Pro Gly Leu 85 90 95

Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr Glu Thr 100 105 110

Thr Ala Phe Ser His Ser Asn Thr Met Ser Ile His Ser Gln Gln Ser 115 120 125

Thr Pro Phe Pro Asp Ser Pro Gly Phe Thr His Thr Val Leu Pro Ala 130 135 140

Thr Leu Thr Thr Thr Asp Ile Gly Gln Glu Ser Thr Ala Phe His Ser 145 150 155 160

Ser Ser Asp Ala Thr Gly Thr Thr Pro Leu Pro Ala Arg Ser Thr Ala 165 170 175

Ser Asp Leu Val Gly Glu Pro Thr Thr Phe Tyr Ile Ser Pro Ser Pro 180 185 190

465

Thr Tyr Thr Thr Leu Phe Pro Ala Ser Ser Ser Thr Ser Gly Leu Thr 200 Glu Glu Ser Thr Thr Phe His Thr Ser Pro Ser Phe Thr Ser Thr Ile 215 Val Ser Thr Glu Ser Leu Glu Thr Leu Ala Pro Gly Leu Cys Gln Glu 230 235 Gly Gln Ile Trp Asn Gly Lys Gln Cys Val Cys Pro Gln Gly Tyr Val 245 250 Gly Tyr Gln Cys Leu Ser Pro Leu Glu Ser Phe Pro Val Glu Thr Pro Glu Lys Leu Asn Ala Thr Leu Gly Met Thr Val Lys Val Thr Tyr Arg 280 Asn Phe Thr Glu Lys Met Asn Asp Ala Ser Ser Gln Glu Tyr Gln Asn 295 Phe Ser Thr Leu Phe Lys Asn Arg Met Asp Val Val Leu Lys Gly Asp 310 315 Asn Leu Pro Gln Tyr Arg Gly Val Asn Ile Arg Arg Leu Leu Asn Gly 325 330 Ser Ile Val Val Lys Asn Asp Val Ile Leu Glu Ala Asp Tyr Thr Leu 350 Glu Tyr Glu Glu Leu Phe Glu Asn Leu Ala Glu Ile Val Lys Ala Lys 360 Ile Met Asn Glu Thr Arg Thr Thr Leu Leu Asp Pro Asp Ser Cys Arg 375 Lys Ala Ile Leu Cys Tyr Ser Glu Glu Asp Thr Phe Val Asp Ser Ser 385 390 395 400 Val Thr Pro Gly Phe Asp Phe Gln Glu Gln Cys Thr Gln Lys Ala Ala 410 Glu Gly Tyr Thr Gln Phe Tyr Tyr Val Asp Val Leu Asp Gly Lys Leu 420 425 430 Ala Cys Val Asn Lys Cys Thr Lys Gly Thr Lys Ser Gln Met Asn Cys Asn Leu Gly Thr Cys Gln Leu Gln Arg Ser Gly Pro Arg Cys Leu Cys

Pro Asn Thr Asn Thr His Trp Tyr Trp Gly Glu Thr Cys Glu Phe Asn

475

470

Ile Ala Lys Ser Leu Val Tyr Gly Ile Val Gly Ala Val Met Ala Val
485 490 495

Leu Leu Leu Ala Leu Ile Ile Leu Ile Ile Leu Phe Ser Leu Ser Gln 500 505 510

Arg Lys Arg His Arg Glu Gln Tyr Asp Val Pro Gln Glu Trp Arg Lys 515 520 525

Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu Asp Gln 530 535 540

Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn Asn Phe 545 550 555 560

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Arg Pro Glu Met Val Ala Ser Thr Val 580 585

<210> 1068 '

<211> 5179

<212> PRT

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<400> 1068

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Gly Arg Asn Val Cys Ser Thr Trp Gly Asn Phe His Tyr Lys Thr Phe 35 40 45

Asp Gly Asp Val Phe Arg Phe Pro Gly Leu Cys Asp Tyr Asn Phe Ala 50 55 60

Ser Asp Cys Arg Gly Ser Tyr Lys Glu Phe Ala Val His Leu Lys Arg 65 70 75 80

Gly Pro Gly Gln Ala Glu Ala Pro Ala Gly Val Glu Ser Ile Leu Leu 85 90 95

Thr Ile Lys Asp Asp Thr Ile Tyr Leu Thr Arg His Leu Ala Val Leu 100 105 110

Asn Gly Ala Val Val Ser Thr Pro His Tyr Ser Pro Gly Leu Leu Ile 115 120 125

Glu Lys Ser Asp Ala Tyr Thr Lys Val Tyr Ser Arg Ala Gly Leu Thr

	130					135					140				
Leu 145	Met	Trp	Asn	Arg	Glu 150	Asp	Ala	Leu	Met	Leu 155	Glu	Leu	Asp	Thr	Lys 160
Phe	Arg	Asn	His	Thr 165	Cys	Gly	Leu	Cys	Gly 170	Asp	Tyr	Asn	Gly	Leu 175	Gln
Ser	Tyr	Ser	Glu 180	Phe	Leu	Ser	Asp	Gly 185	Val	Leu	Phe	Ser	Pro 190	Leu	Glu
Phe	Gly	Asn 195	Met	Gln	Lys	Ile	Asn 200	Gln	Pro	Asp	Val	.Val 205	Cys	Glu	Asp
Pro	Glu 210	Glu	Glu	Val	Ala	Pro 215	Ala	Ser	Cys	Ser	Glu 220	His	Arg	Ala	Glu
Cys 225	Glu	Arg	Leu	Leu	Thr 230	Ala	Glu	Ala	Phe	Ala 235	Asp	Cys	Gln	Asp	Leu 240
Val	Pro	Leu	Glu	Pro 245	Tyr	Leu	Arg	Ala	Cys 250	Gln	Gln	Asp	Arg	Cys 255	Arg
Cys	Pro	Gly	Gly 260	Asp	Thr	Cys	Val	Cys 265	Ser	Thr	Val	Ala	Glu 270	Phe	Ser
Arg	Gln	Cys 275	Ser	His	Ala	Gly	Gly 280	Arg	Pro	Gly	Asn	Trp 285	Arg	Thr	Ala
Thr	Leu 290	Cys	Pro	Lys	Thr	Cys 295	Pro	Gly	Asn	Leu	Val 300	Tyr	Leu	Glu	Ser
Gly 305	Ser	Pro	Cys	Met	Asp 310	Thr	Cys	Ser	His	Leu 315	Glu	Val	Ser	Ser	Leu 320
Cys	Glu	Glu	His	Arg 325	Met	Asp	Gly	Cys	Phe 330	Cys	Pro	Glu	Gly	Thr 335	Val
Tyr	Asp	Asp	Ile 340	Gly	Asp	Ser	Gly	Cys 345	Val	Pro	Val	Ser	Gln 350	Cys	His
Cys	Arg	Leu 355	His	Gly	His	Leu	Tyr 360	Thr	Pro	Gly	Gln	Glu 365	Ile	Thr	Asn
Asp	Cys 370	Glu	Gln	Cys	Val	Cys 375	Asn	Ala	Gly	Arg	Trp 380	Val	Cys	Lys	Asp
Leu 385	Pro	Cys	Pro	Gly	Thr 390	Cys	Ala	Leu	Glu	Gly 395	Gly	Ser	His	Ile	Thr 400
Thr	Phe	Asp	Gly	Lys 405	Thr	Tyr	Thr	Phe	His 410	Gly	Asp	Cys	Tyr	Tyr 415	Val
T 011	71.	Tue	C1	7 00	11	7 ~~	7 ~~	C - ~	т	71.	т	T	C1	C1	T

			420					425					430		
Ala	Pro	Cys 435	Gly	Ser	Thr	Asp	Lys 440	Gln	Thr	Суз	Leu	Lys 445	Thr	Val	Val
Leu	Leu 450	Ala	Asp	Lys	Lys	Lys 455	Asn	Ala	Val	Val	Phe 460	Lys	Ser	Asp	Gly
Ser 465	Val	Leu	Leu	Asn	Gln 470	Leu	Gln	Val	Asn	Leu 475	Pro	His	Val	Thr	Ala 480
Ser	Phe	Ser	Val	Phe 485	Arg	Pro	Ser	Ser	Tyr 490	His	Ile	Met	Val	Ser 495	Met
Ala	Ile	Gly	Val 500	Arg	Leu	Gln	Val	Gln 505	Leu	Ala	Pro	Val	Met 510	Gln	Leu
Phe	Val	Thr 515	Leu	Asp	Gln	Ala	Ser 520	Gln	Gly	Gln	Val	Gln 525	Gly	Leu	Cys
Gly	Asn 530	Phe	Asn	Gly	Leu	Glu 535	Gly	Asp	Asp	Phe	Lys 540	Thr	Ala	Ser	Gly
Leu 545	Val	Glu	Ala	Thr	Gly 550	Ala	Gly	Phe	Ala	Asn 555		Trp	Lys	Ala	Gln 560
Ser	Thr	Cys	His	Asp 565	Lys	Leu	Asp	Trp	Leu 570	Asp	Asp	Pro	Cys	Ser 575	Leu
Asn	Ile	Glu	Ser 580	Ala	Asn	Tyr	Ala	Glu 585	His	Trp	Cys	Ser	Leu 590	Leu	Lys
Lys	Thr	Glu 595	Thr	Pro	Phe	Gly	Arg 600	Cys	His	Ser	Ala	Val 605	Asp	Pro	Ala
Glu	Tyr 610	Tyr	Lys	Arg	Cys	Lys 615	Tyr	Asp	Thr	Cys	Asn 620	Cys	Gln	Asn	Asn
Glu 625	Asp	Cys	Leu		Ala 630		Leu	Ser		Tyr 635	Ala	Arg	Ala		Thr 640
Ala	Lys	Gly	Val	Met 645	Leu	Trp	Gly	Trp	Arg 650	Glu	His	Val	Cys	Asn 655	Lys
Asp	Val	Gly	Ser 660	Cys	Pro	Asn	Ser	Gln 665	Val	Phe	Leu	Tyr	Asn 670	Leu	Thr
Thr	Cys	Gln 675	Gln	Thr	Cys	Arg	Ser 680	Leu	Ser	Glu	Ala	Asp 685	Ser	His	Cys
Leu	Glu 690	Gly	Phe	Ala	Pro	Val 695	Asp	Gly	Cys	Gly	Cys 700	Pro	Asp	His	Thr
Phe	Leu	Asp	Glu	Lys	Gly	Arg	Cys	Val	Pro	Leu	Ala	Lys	Cys	Ser	Cvs

705					710					715					720
Tyr	His	Arg	Gly	Leu 725	Tyr	Leu	Glu	Ala	Gly 730	Asp	Val	Val	Val	Arg 735	Gln
Glu	Glu	Arg	Cys 740	Val	Суѕ	Arg	Asp	Gly 745	Arg	Leu	His	Cys	Arg 750	Gln	Ile
Arg	Leu	Ile 755	Gly	Gln	Ser	Cys	Thr 760	Ala	Pro	Lys	Ile	His 765	Met	Asp	Cys
Ser	Asn 770	Leu	Thr	Ala	Leu	Ala 775	Thr	Ser	Lys	Pro	Arg 780	Ala	Leu	Ser	Cys
Gln 785	Thr	Leu	Ala	Ala	Gly 790	Tyr	Tyr	His	Thr	Glu 795	Cys	Val	Ser	Gly	Cys 800
Val	Cys	Pro	Asp	Gly 805	Leu	Met	Asp	Asp	Gly 810	Arg	Gly	Gly	Cys	Val 815	Val
Glu	Lys	Glu	Cys 820	Pro	Cys	Val	His	Asn 825	Asn	Asp	Leu	Tyr	Ser 830	Ser	Gly
Ala	Lys	Ile 835	Lys	Val	Asp	Cys	Asn 840	Thr	Cys	Thr	Cys	Lys 845	Arg	Gly	Arg
Trp	Val 850	Cys	Thr	Gln	Ala	Val 855	Cys	His	Gly	Thr	Cys 860	Ser	Ile	Tyr	Gly
Ser 865	Gly	His	Tyr	Ile	Thr 870	Phe	Asp	Gly	Lys	Tyr 875	Tyr	Asp	Phe	Asp	Gly 880
His	Cys	Ser	Tyr	Val 885	Ala	Val	Gln	Asp	Tyr 890	Cys	Gly	Gln	Asn	Ser 895	Ser
Leu	Gly	Ser	Phe 900	Ser	Ile	Ile	Thr	Glu 905	Asn	Val	Pro	Cys	Gly 910	Thr	Thr
Gly	Val	Thr 915	Cys	Ser	Lys	Ala	Ile 920	Lys	Ile	Phe	Met	Gly 925	Arg	Thr	Glu
Leu	Lys 930	Leu	Glu	Asp	Lys	His 935	Arg	Val	Val	Ile	Gln 940	Arg	Asp	Glu	Gly
His 945	His	Val	Ala	Tyr	Thr 950	Thr	Arg	Glu	Val	Gly 955	Gln	Tyr	Leu	Val	Val 960
Glu	Ser	Ser	Thr	Gly 965	Ile	Ile	Val	Ile	Trp 970	Asp	Lys	Arg	Thr	Thr 975	Val
Phe	Ile	Lys	Leu 980	Ala	Pro	Ser	Tyr	Lys 985	Gly	Thr	Val	Cys	Gly 990	Leu	Cys
Gly	Asn	Phe	Asp	His	Arg	Ser	Asn	Asn	Asp	Phe	Thr	Thr	Arg	Asp	His

Met Val Val Ser Ser Glu Leu Asp Phe Gly Asn Ser Trp Lys Glu Ala Pro Thr Cys Pro Asp Val Ser Thr Asn Pro Glu Pro Cys Ser Leu Asn Pro His Arg Arg Ser Trp Ala Glu Lys Gln Cys Ser Ile Leu Lys Ser Ser Val Phe Ser Ile Cys His Ser Lys Val Asp Pro Lys Pro Phe Tyr Glu Ala Cys Val His Asp Ser Cys Ser Cys Asp Thr Gly Gly Asp Cys Glu Cys Phe Cys Ser Ala Val Ala Ser Tyr Ala Gln Glu Cys Thr Lys Glu Gly Ala Cys Val Phe Trp Arg Thr Pro Asp Leu Cys Pro Ile Phe Cys Asp Tyr Tyr Asn Pro Pro His Glu Cys Glu Trp His Tyr Glu Pro Cys Gly Asn Arg Ser Phe Glu Thr Cys Arg Thr Ile Asn Gly Ile His Ser Asn Ile Ser Val Ser Tyr Leu Glu Gly Cys Tyr Pro Arg Cys Pro Lys Asp Arg Pro Ile Tyr Glu Glu Asp Leu Lys Lys Cys Val Thr Ala Asp Lys Cys Gly Cys Tyr Val Glu Asp Thr His Tyr Pro Pro Gly Ala Ser Val Pro Thr Glu Glu Thr Cys Lys Ser Cys Val Cys Thr Asn Ser Ser Gln Val Val Cys Arg Pro Glu Glu Gly Lys Ile Leu Asn Gln Thr Gln Asp Gly Ala Phe Cys Tyr Trp Glu Ile Cys Gly Pro Asn Gly Thr Val Glu Lys His Phe Asn Ile Cys Ser Ile Thr Thr Arg Pro Ser Thr Leu Thr Thr Phe Thr Thr Ile Thr Leu Pro Thr Thr Pro Thr Ser Phe Thr Thr Thr Thr Thr Thr Thr Pro Thr Ser Ser Thr Val Leu Ser

Thr Thr Pro Lys Leu Cys Cys Leu Trp Ser Asp Trp Ile Asn Glu Asp His Pro Ser Ser Gly Ser Asp Gly Asp Arg Glu Pro Phe Asp Gly Val Cys Gly Ala Pro Glu Asp Ile Glu Cys Arg Ser Val Lys Asp Pro His Leu Ser Leu Glu Gln His Gly Gln Lys Val Gln Cys Asp Val Ser Val Gly Phe Ile Cys Lys Asn Glu Asp Gln Phe Gly Asn Gly Pro Phe Gly Leu Cys Tyr Asp Tyr Lys Ile Arg Val Asn Cys Cys Trp Pro Met Asp Lys Cys Ile Thr Thr Pro Ser Pro Pro Thr Thr Thr Pro Ser Pro Pro Pro Thr Thr Thr Thr Leu Pro Pro Thr Thr Pro Ser Pro Pro Thr Thr Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro Pro Ile Thr Thr Thr Thr Pro Leu Pro Thr Thr Pro Ser Pro 1455. Pro Ile Ser Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro Pro Thr Thr Pro Ser Pro Pro Thr Thr Pro Ser Pro Pro Thr Thr Thr Thr Thr Pro Pro Pro Thr Thr Pro Ser Pro Pro Met Thr Thr Pro Ile Thr Pro Pro Ala Ser Thr Thr Leu Pro Pro Thr Thr Thr Pro Ser Pro Pro Thr Thr Thr Thr Thr Pro Pro Pro Thr Thr Thr Pro Ser Pro Pro Thr Thr Thr Pro Ile Thr Pro Pro Thr Ser Thr Thr Leu Pro Pro Thr Thr Pro Ser Pro Pro Pro Thr Thr Thr Thr Pro Pro Pro Thr Thr Pro Ser Pro Pro Thr Thr

	1570)				1575	5				1580)			
Thr 1585		Ser	Pro	Pro	Thr 1590		Thr	Thr	Thr	Thr 1599		Pro	Pro	Thr	Thr 1600
Thr	Pro	Ser	Pro	Pro 1609		Thr	Thr	Thr	Thr 1610		Pro	Pro	Pro	Thr 1615	
Thr	Pro	Ser	Pro 1620		Thr	Thr	Thr	Pro 1625		Thr	Pro	Pro	Thr 1630		Thr
Thr	Thr	Leu 1635	Pro 5	Pro	Thr	Thr	Thr 1640		Ser	Pro	Pro	Pro 1645		Thr	Thr
Thr	Thr 1650		Pro	Pro	Thr	Thr 1655		Pro	Ser	Pro	Pro 1660		Thr	Thr	Thr
Pro 1665		Pro	Pro	Ile	Thr 1670		Thr	Thr	Thr	Pro 1675		Pro	Thr	Thr	Thr 1680
Pro	Ser	Ser	Pro	Ile 1685		Thr	Thr	Pro	Ser 1690		Pro	Thr	Thr	Thr 1695	
Thr	Thr	Pro	Ser 1700		Thr	Thr	Thr	Pro 1705		Ser	Pro	Ile	Thr 1710		Thr
Thr	Thr	Pro 1715	Ser	Ser	Thr	Thr	Thr 1720		Ser	Pro	Pro	Pro 1725		Thr	Met
Thr	Thr 1730		Ser	Pro	Thr	Thr 1735		Pro	Ser	Pro	Pro 1740		Thr	Thr	Met
Thr 1745		Leu	Pro	Pro	Thr 1750		Thr	Ser	Ser	Pro 1755		Thr	Thr	Thr	Pro 1760
Leu	Pro	Pro	Ser	Ile 1765		Pro	Pro	Thr	Phe 1770		Pro	Phe	Ser	Thr 1775	
Thr	Pro	Thr	Thr 1780				Pro		_	Asn	_		_	_	Leu
Asp	Ser	Gly 1795	Lys	Pro	Asn	Phe	His 1800		Pro	Gly	Gly	Asp 1805		Glu	Leu
Ile	Gly 1810		Val	Cys	Gly	Pro 1815	_	Trp	Ala	Ala	Asn 1820		Ser	Cys	Arg
Ala 1825		Met	Tyr	Pro	Asp 1830		Pro	Ile	Gly	Gln 1835		Gly	Gln	Thr	Val 1840
Val	Cys	Asp	Val	Ser 1845		Gly	Leu	Ile	Cys 1850		Asn	Glu	Asp	Gln 1855	
Pro	Gly	Gly	Val	Ile	Pro	Met	Ala	Phe	Cys	Leu	Asn	Tyr	Glu	Ile	Asn

Val Gln Cys Cys Glu Cys Val Thr Gln Pro Thr Thr Met Thr Thr Thr Thr Thr Glu Asn Pro Thr Pro Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Wal

Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro

		2435	5				2440)				2445	5		
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Pro 2465		Gly	Thr	Gln	Thr 2470		Thr	Thr	Thr	Pro 2475		Thr	Thr	Thr	Thr 2480
Thr	Val	Thr	Pro	Thr 2485	_	Thr	Pro	Thr	Gly 2490		Gln	Thr	Pro	Thr 2495	Thr
Thr	Pro	Ile	Thr 2500		Thr	Thr	Thr	Val 2505		Pro	Thr	Pro	Thr 2510		Thr
Gly	Thr	Gln 2515	Thr	Pro	Thr	Thr	Thr 2520		Ile	Thr	Thr	Thr 2525		Thr	Val
Thr	Pro 2530		Pro	Thr	Pro	Thr 2535		Thr	Gln	Thr	Pro 2540		Thr	Thr	Pro
Ile 2545		Thr	Thr	Thr	Thr 2550		Thr	Pro	Thr	Pro 2555		Pro	Thr	Gly	Thr 2560
Gln	Thr	Pro	Thr	Thr 2565		Pro	Ile		Thr 2570		Thr	Thr	Val	Thr 2575	
Thr	Pro	Thr	Pro 2580		Gly	Thr	Gln	Thr 2585			Thr	Thr	Pro 2590		Thr
Thr	Thr	Thr 2595	Thr	Val	Thr	Pro	Thr 2600		Thr	Pro	Thr	Gly 2605		Gln	Thr
Pro	Thr 2610		Thr	Pro	Ile	Thr 2615		Thr	Thr	Thr	Val 2620		Pro	Thr	Pro
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Thr	Thr	Val	Thr	Pro 2645					Thr 2650	_					
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Val	Thr 2690		Thr	Pro	Thr	Pro 2695		Gly	Thr	Gln	Thr 2700		Thr	Thr	Thr
Pro 2705		Thr	Thr	Thr	Thr 2710		Val	Thr	Pro	Thr 2715		Thr	Pro	Thr	Gly 2720
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2725 2730 2735

350

Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile 2740 2745 2750

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Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr 2770 2775 2780

Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr 2785 2790 2795 2800

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Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr Thr Thr Thr Val 2885 2890 2895

Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro 2900 2905 2910

Ile Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr 2915 2920 2925

Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro 2930 2935 2940

Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Pro Ile Thr 2945 2950 2955 2960

Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr 2965 2970 2975

Pro Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro 2980 2985 2990

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Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr

	3010)				301	5				3020)			
Thr 3025		Pro	Ile	Thr	Thr 3030		Thr	Thr	Val	Thr 303		Thr	Pro	Thr	Pro 3040
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Val	Thr	Pro	Thr 3060		Thr	Pro	Thr	Gly 306		Gln	Thr	Pro	Thr 3070		Thr
Pro	Ile	Thr 3075		Thr	Thr	Thr	Val 3080		Pro	Thr	Pro	Thr 3085		Thr	Gly
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Pro 3105		Pro	Thr	Pro	Thr 3110	_	Thr	Gln	Thr	Pro 3115		Thr	Thr	Pro	Ile 3120
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Pro	Thr	Pro 3155		Gly	Thr	Gln	Thr 3160		Thr	Thr	Thr	Pro 3165		Thr	Thr
Thr	Thr 3170		Val	Thr	Pro	Thr 3175	Pro	Thr	Pro	Thr	Gly 3180		Gln	Thr	Pro
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Thr	Val	Thr	Pro 3220				Pro	322		Thr			Pro 3230		Thr
Thr	Pro	Ile 3235		Thr	Thr	Thr	Thr 3240		Thr	Pro	Thr	Pro 3245		Pro	Thr
Gly	Thr 3250		Thr	Pro	Thr	Thr 3255	Thr	Pro	Ile	Thr	Thr 3260		Thr	Thr	.Val
Thr 3265		Thr	Pro	Thr	Pro 3270		Gly	Thr	Gln	Thr 3275		Thr	Thr	Thr	Pro 3280
Ile	Thr	Thr	Thr	Thr 3285		Val	Thr	Pro	Thr 3290		Thr	Pro	Thr	Gly 3295	
Gln	Thr	Pro	Thr	Thr	Thr	Pro	Ile	Thr	Thr	Thr	Thr	Thr	Val	Thr	Pro

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Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu 85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met 100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His 115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn 130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro 145 150 155

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<211> 158

<212> PRT

<213> Homo sapiens

<400> 1078

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala 5 10 15

Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
20 25 30

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu 35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly

	50					55					60				
Ala 65	His	Leu	Ala	Ser	Ile 70	Leu	Ser	Leu	Lys	Glu 75	Ala	Ser	Thr	Ile	Ala 80
Glu	Tyr	Ile	Ser	Gly 85	Tyr	Gln	Arg	Ser	Gln 90	Pro	Ile	Trp	Ile	Gly 95	Leu
His	Asp	Pro	Gln 100	Lys	Arg	Gln	Gln	Trp 105	Gln	Trp	Ile	Asp	Gly 110	Ala	Met
Tyr	Leu	Tyr 115	Arg	Ser	Trp	Ser	Gly 120	Lys	Ser	Met	Gly	Gly 125	Asn	Lys	His
Суѕ	Ala 130	Glu	Met	Ser	Ser	Asn 135	Asn	Asn	Phe	Leu	Thr 140	Trp	Ser	Ser	Asn
Glu 145	Cys	Asn	Lys	Arg	Gln 150	His	Phe	Leu	Cys	Lys 155	Tyr	Arg	Pro		
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			Arg	Ser 5	Met	Arg	Leu	Leu	Leu 10	Leu	Leu	Ser	Cys	Leu 15	Ala
Lys	Thr	Gly	Val 20	Leu	Gly	Asp	Ile	Ile 25	Met	Arg	Pro	Ser	Cys 30	Ala	Pro
Gly	Trp	Phe 35	Tyr	His	Lys	Ser	Asn 40	Cys	Tyr	Gly	Tyr	Phe 45	Arg	Lys	Leu
Arg	Asn 50	Trp	Ser	Asp	Ala	Glu 55	Leu	Glu	Cys	Gln	Ser 60	Tyr	Gly	Asn	Gly
Ala 65	His	Leu	Ala	Ser	Ile 70	Leu	Ser	Leu	Lys	Glu 75	Ala	Ser	Thr	Ile	Ala 80
Glu	Tyr	Ile	Ser	Gly 85	Tyr	Gln	Arg	Ser	Gln 90	Pro	Ile	Trp	Ile	Gly 95	Leu
His	Asp	Pro	Gln 100	Lys	Arg	Gln	Gln	Trp 105	Gln	Trp	Ile	Asp	Gly 110	Ala	Met
Tyr	Leu	Tyr 115	Arg	Ser	Trp	Ser	Gly 120	Lys	Ser	Met	Gly	Gly 125	Asn	Lys	His
Cys	Ala	Glu	Met	Ser	Ser	Asn.	Asn	Asn	Phe	Leu	Thr	Trp	Ser	Ser	Asn

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro 145 150 155

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<211> 158

<212> PRT

<213> Homo sapiens

<400> 1080

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Ser Cys Leu Ala
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Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
20 25 30

Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu 35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly 50 55 60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala 65 70 75 80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met 100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His 115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Phe Leu Thr Trp Ser Ser Asn 130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro 145 150 155

<210> 1081

<211> 832

<212> PRT

<213> Homo sapiens

<400> 1081

Met Ile Leu Gln Ala His Leu His Ser Leu Cys Leu Leu Met Leu Tyr
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Leu Ala Thr Gly Tyr Gly Gln Glu Gly Lys Phe Ser Gly Pro Leu Lys 20 25 30

Pro Met Thr Phe Ser Ile Tyr Glu Gly Gln Glu Pro Ser Gln Ile Ile

		35					40					45			
Phe	Gln 50	Phe	Lys	Ala	Asn	Pro 55	Pro	Ala	Val	Thr	Phe 60	Glu	Leu	Thr	Gly
Glu 65	Thr	Asp	Asn	Ile	Phe 70	Val	Ile	Glu	Arg	Glu 75	Gly	Leu	Leu	Tyr	Tyr 80
Asn	Arg	Ala	Leu	Asp 85	Arg	Glu	Thr	Arg	Ser 90	Thr	His	Asn	Leu	Gln 95	Val
Ala	Ala	Leu	Asp 100	Ala	Asn	Gly	Ile	Ile 105	Val	Glu	Gly	Pro	Val 110	Pro	Ile
Thr	Ile	Glu 115	Val	Lys	Asp	Ile	Asn 120	Asp	Asn	Arg	Pro	Thr 125	Phe	Leu	Gln
Ser	Lys 130	Tyr	Glu	Gly	Ser	Val 135	Arg	Gln	Asn	Ser	Arg 140	Pro	Gly	Lys	Pro
Phe 145	Leu	Tyr	Val	Asn	Ala 150	Thr	Asp	Leu	Asp	Asp 155	Pro	Ala	Thr	Pro	Asn 160
Gly	Gln	Leu	Tyr	Tyr 165	Gln	Ile	Val	Ile	Gln 170	Leu	Pro	Met	Ile	Asn 175	Asn
Val	Met	Tyr	Phe 180	Gln	Ile	Asn	Asn	Lys 185	Thr	Gly	Ala	Ile	Ser 190	Leu	Thr
Arg	Glu	Gly 195	Ser	Gln	Glu	Leu	Asn 200	Pro	Ala	Lys	Asn	Pro 205	Ser	Tyr	Asn
Leu	Val 210	Ile	Ser	Val	Lys	Asp 215	Met	Gly	Gly	Gln	Ser 220	Glu	Asn	Ser	Phe
Ser 225	Asp	Thr	Thr	Ser	Val 230	Asp	Ile	Ile	Val	Thr 235	Glu	Asn	Ile	Trp	Lys 240
Ala	Pro	Lys	Pro	Val 245	Glu	Met	Val	Glu	Asn 250	Ser	Thr	Asp	Pro	His 255	Pro
Ile	Lys	Ile	Thr 260	Gln	Val	Arg	Trp	Asn 265	Asp	Pro	Gly	Ala	Gln 270	Tyr	Ser
Leu	Val	Asp 275	Lys	Glu	Lys	Leu	Pro 280	Arg	Phe	Pro	Phe	Ser 285	Ile	Asp	Gln
Glu	Gly 290	Asp	Ile	Tyr	Val	Thr 295	Gln	Pro	Leu	Asp	Arg 300	Glu	Glu	Lys	Asp
Ala 305	Tyr	Val	Phe	Tyr	Ala 310	Val	Ala	Lys	Asp	Glu 315	Tyr	Gly	Lys	Pro	Leu 320
Sar	Tur	Dro	Lau	Glu	Tla	Hic	Val	Tuc	Val	Luc	Δen	Tla	Δen	Δen	Aen

				325					330					335	
Pro	Pro	Thr	Cys 340	Pro	Ser	Pro	Val	Thr 345	Val	Phe	Glu	Val	Gln 350	Glu	Asn
Glu	Arg	Leu 355	Gly	Asn	Ser	Ile	Gly 360	Thr	Leu	Thr	Ala	His 365	Asp	Arg	Asp
Glu	Glu 370	Asn	Thr	Ala	Asn	Ser 375	Phe	Leu	Asn	Tyr	Arg 380	Ile	Val	Glu	Gln
Thr 385	Pro	Lys	Leu	Pro	Met 390	Asp	Gly	Leu	Phe	Leu 395	Ile	Gln	Thr	Tyr	Ala 400
Gly	Met	Leu	Gln	Leu 405	Ala	Lys	Gln	Ser	Leu 410	Lys	Lys	Gln	Asp	Thr 415	Pro
Gln	Tyr	Asn	Leu 420	Thr	Ile	Glu	Val	Ser 425	Asp	Lys	Asp	Phe	Lys 430	Thr	Leu
Cys	Phe	Val 435	Gln	Ile	Asn	Val	Ile 440	Asp	Ile	Asn	Asp	Gln 445	Ile	Pro	Ile
Phe	Glu 450	Lys	Ser	Asp	Tyr	Gly 455	Asn	Leu	Thr	Leu	Ala 460	Glu	Asp	Thr	Asn
Ile 465	Gly	Ser	Thr	Ile	Leu 470	Thr	Ile	Gln	Ala	Thr 475	Asp	Ala	Asp	Glu	Pro 480
Phe	Thr	Gly	Ser	Ser 485	Lys	Ile	Leu	Tyr	His 490	Ile	Ile	Lys	Gly	Asp 495	Ser
Glu	Gly	Arg	Leu 500	Gly	Val	Asp	Thr	Asp 505	Pro	His	Thr	Asn	Thr 510	Gly	Tyr
Val	Ile	Ile 515	Lys	Lys	Pro	Leu	Asp 520	Phe	Glu	Thr	Ala	Ala 525	Val	Ser	Asn
Ile	Val 530	Phe	Lys	Ala	Glu	Asn 535	Pro	Glu	Pro	Leu	Val 540	Phe	Gly	Val	Lys
Tyr 545	Asn	Ala	Ser	Ser	Phe 550	Ala	Lys	Phe	Thr	Leu 555	Ile	Val	Thr	Asp	Val 560
Asn	Glu	Ala	Pro	Gln 565	Phe	Ser	Gln	His	Val 570	Phe	Gln	Ala	Lys	Val 575	Ser
Glu	Asp	Val	Ala 580	Ile	Gly	Thr	Lys	Val 585	Gly	Asn	Val	Thr	Ala 590	Lys	Asp
Pro	Glu	Gly 595	Leu	Asp	Ile	Ser	Tyr 600	Ser	Leu	Arg	Gly	Asp 605	Thr	Arg	Gly
Trp	Leu	Lys	Ile	Asp	His	Val	Thr	Gly	Glu	Ile	Phe	Ser	Val	Ala	Pro

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368

	610					615					620				
Leu 625	Asp	Arg	Glu	Ala	Gly 630	Ser	Pro	Tyr	Arg	Val 635	Gln	Val	Val	Ala	Thr 640
Glu	Val	Gly	Gly	Ser 645	Ser	Leu	Ser	Ser	Val 650	Ser	Glu	Phe	His	Leu 655	Ile
Leu	Met	Asp	Val 660	Asn	Asp	Asn	Pro	Pro 665	Arg	Leu	Ala	Lys	Asp 670	Tyr	Thr
Gly	Leu	Phe 675	Phe	Cys	His	Pro	Leu 680	Ser	Ala	Pro	Gly	Ser 685	Leu	Ile	Phe
Glu	Ala 690	Thr	Asp	Asp	Asp	Gln 695	His	Leu	Phe	Arg	Gly 700	Pro	His	Phe	Thr
Phe 705	Ser	Leu	Gly	Ser	Gly 710	Ser	Leu	Gln	Asn	Asp 715	Trp	Glu	Val	Ser	Lys 720
Ile	Asn	Gly	Thr	His 725	Ala	Arg	Leu	Ser	Thr 730	Arg	His	Thr	Asp	Phe 735	Glu
Glu	Arg	Ala	Tyr 740	Val	Val	Leu	Ile	Arg 745	Ile	Asn	Asp	Gly	Gly 750	Arg	Pro
Pro	Leu	Glu 755	Gly	Ile	Val	Ser	Leu 760	Pro	Val	Thr	Phe	Cys 765	Ser	Cys	Val
Glu	Gly 770	Ser	Cys	Phe	Arg	Pro 775	Ala	Gly	His	Gln	Thr 780	Gly	Ile	Pro	Thr
Val 785	Gly	Met	Ala	Val	Gly 790	Ile	Leu	Leu	Thr	Thr 795	Leu	Leu	Val	Ile	Gly 800
Ile	Ile	Leu	Ala	Val 805	Val	Phe	Ile	Arg	Ile 810	Lys	Lys	Asp	Lys	Gly 815	Lys
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<210> 1083

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1083

Asn Met Asp Cys Pro Leu Asn Phe Asp Cys Pro Lys Asn Leu Phe Leu
5 10 15

Ile Tyr Asn Met Leu Pro Asp Lys Val Thr Leu Asp Val Pro Ala Glu 20 25 30

Cys Leu Ile Phe Pro Ser Gln Ile Arg Phe Glu His 35